

No.	Pub. Year	Citations	File Name	File Size (bytes)
5	1967-1968	857	RADBIB05.TXT	791,604

The search criteria was for radiation or radiological for publication year greater than 1966 and less than 1969.

The document database four character field names and a descriptor for each field are as follows:

ABS	Abstract
ACCD	Accession Date
ADNO	DTIC Number
AUTH	Author(s)
CCDE	Computer Code(s)
CLSS	Classification
CONN	Contract Number
CORP	Corporation
DATE	Report Date
DESC	Descriptor(s)
EFFT	Damage Mechanism
EMPF	Electro Magnetic Pulse File number(s)
HESO	High Explosive Shot(s)
INUM	Item Number
LA	Country or Language
PROJ	Project Number
REPN	Report Number
SHOT	Nuclear Test(s)
SUCE	Device Designation
SUJO	DASIAC Subject number(s)
SYMJ	Published in
SYST	System Affected
TEMP	Document Control number(s)
TITL	Report Title
TNFF	Tactical Nuclear Warfare
TREE	Transient Radiation Effects on Electronics number(s)
TSHO	Shot Type

Defense Threat Reduction Agency Declassification Review EO 12958	
1st REVIEW DATE: <u>9 Feb 2000</u>	CLASSIFICATION (Code Numbers)
AUTHORITY: <input checked="" type="checkbox"/> ACC <input checked="" type="checkbox"/> ADCC <input checked="" type="checkbox"/> ADNC	1. Classification Remains Unchanged
NAME: <u>John H. Bibb</u>	2. Classification Changed to: <u>UNCLASS</u>
2nd REVIEW DATE: <u>7 Mar 99</u>	3. Contains No DTRA Classified Info
AUTHORITY: <input checked="" type="checkbox"/> ACC <input checked="" type="checkbox"/> ADCC <input checked="" type="checkbox"/> ADNC	4. Coordinate With
NAME: <u>John H. Bibb</u>	5. Exempt From Declassification
	6. Exempt From 1 2 3 4 5 6 7 8 9

* WITH DELETIONS.

Statement A

Approved for public release;*

Distribution unlimited. 7 March 2000

*THIS VERSION ONLY.

John H. Bibb

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Report Log for Bibliography

Report 'bibliography' scheduled as 'radbib'

Bibliography using full text searching with selection qualification.

STILAS text selection v6.2 started on Monday, June 13, 1994, 10:45 AM

Search will use the KUNI database

Search strings will be read from standard input

The catalog key will be written to standard output

19940613104505 BRS/Search-Engine v.5 started for seltext1

11379 records found for #1: RADIATION OR RADIOLOGICAL

1 searches considered

1 searches selected.

STILAS text selection finished on Monday, June 13, 1994, 10:49 AM

STILAS catalog selection v6.2 started on Monday, June 13, 1994, 10:45 AM

Catalog key will be read from standard input

The catalog key will be written to standard output

The author key will be written to standard output

The title key will be written to standard output

Catalog will be selected if year_of_pub is more than 1968 and less than 1971

11379 catalog record(s) considered

893 catalog record(s) selected.

STILAS catalog selection finished on Monday, June 13, 1994, 10:49 AM

STILAS call number selection v6.2 started on Monday, June 13, 1994, 10:45 AM

Catalog key will be read from standard input

The callnum primary key will be written to standard output

The shelving key will be written to standard output

String from standard input will be written to standard output

Call number will be selected if library is DOCUMENT

893 callnum record(s) considered

892 callnum record(s) selected.

STILAS call number selection finished on Monday, June 13, 1994, 10:49 AM

STILAS item selection v6.2 started on Monday, June 13, 1994, 10:45 AM

Item file will be read by callnum key from standard input

The item primary key will be written to standard output

String from standard input will be written to standard output

892 item record(s) considered

892 item record(s) selected.

STILAS item selection finished on Monday, June 13, 1994, 10:49 AM

Sort: sorting by CALL NUMBER

STILAS item printing v6.2 started on Monday, June 13, 1994, 10:45 AM

Catalog key will be read from standard input

The print will be a catalog level shelflist

The MARC tags will be written to standard output

The call number only will be written to standard output

The item information will be written to standard output

The report title option will be used

892 catalog(s) printed.

0 catacnt(s) printed.

892 call number(s) printed.

892 item(s) printed.

0 itemacnt(s) printed.

STILAS item printing finished on Monday, June 13, 1994, 10:49 AM

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.report

.title

Bibliography

Produced Monday, June 13, 1994 at 10:45 AM

.end

INUM: 08423
AUTH: MIELBRECHT R.E.
CLSS: SRD
CCDE: NAT ; (AIRCRAFT VULNERABILITY VOLUME CODE)
CORP: BOEING AIRCRAFT COMPANY (SEATTLE-WA)
DATE: 6901
DESC: Nuclear Weapon Effects flight systems airplanes
DESC: CODE
EFFT: NUCLEAR RADIATION ; THERMAL ; AIRBLAST
REPN: D 2 84107 1
SUJO: 3-111-000
TEMP: 61630
TTTL: AIRCRAFT VULNERABILITY VOLUME COMPUTER PROGRAM (U), 471 P (SRD)
TREE: 398

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08423

.endblock

.block

copy: 1 id: 42551-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 08552
CLSS: U
CONN: W 7405 ENG 26
CORP: OAK RIDGE NATIONAL LABORATORY (OAK RIDGE-TN)
DATE: 6901
DESC: BIBLIOGRAPHY
DESC: Cross Sections neutron
DESC: Cross Sections gamma
REPN: ORNL RSIC 6 VOL 2
SUJO: 9-820-000 ; 9-830-000
TTTL: ABSTRACTS OF THE LITERATURE EXAMINED BY THE RADIATION SHIELDING
INFORMATION CENTER (REACTOR AND WEAPONS RADIATION SHIELDING) (U),
275 P (U)
TREE: 411 ; 412 ; 150

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08552

.endblock

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copy: 1 id: 42665-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 08761
ADNO: 848082L

AUTH: FUTTERER A.T.
CLSS: U
CCDE: AIRTRANS ; ANISN ; AUGIAS ; COHORT ; DOT ; DTF-IV ; DTF-PHOTON ; NGM
; NHM ; 05R ; OGRE ; SORS-N ; SORS-G ; THISTLE ; PHATE ; HAT ; NHAT
; SAM-C ; UNC-SAM-2
CORP: ARMY/NUCLEAR DEFENSE LABORATORY (EDGEWOOD ARSENAL-MD)
DATE: 6901
DESC: Radiation Transport gamma
DESC: Radiation Transport x-ray
DESC: SURVEY CODE
DESC: Radiation Transport neutron
REPN: NRDL TR 119
SUJO: 9-620-000 ; 9-640-000 ; 9-650-000
TITL: ATMOSPHERIC TRANSPORT OF RADIATION INCLUDING ABSTRACTS OF SELECTED
COMPUTER CODES (U), 66 P (U)

TREE: 950

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08761

.endblock

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copy: 1 id: 42864-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 08838

AUTH: BRINNER J. ; SCHALIT L.

CLSS: U

CCDE: DIANE ; DENSER ; DIAPHANOUS ; DASE ; ANHIST ; ANNHEO

CONN: DASA 01 68 C 0116

CORP: SYSTEMS SCIENCE AND SOFTWARE (LA JOLLA-CA)

DATE: 6902

DESC: CODE

DESC: equation of state heat of vaporization thermal conductivity opacity

L1 OPACITY

REPN: 3 SR 32 VOL 3

SUJO: 9-710-000

TITL: PREPARATION OF OPTICAL DATA FOR RADIATION TRANSPORT AND
HYDRODYNAMICS CODE USAGE, VOLUME III-PREPARATION OF INPUT FOR THE
DIANE CODE (U), CIRCA 100 PAGES (U)

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08838

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copy: 1 id: 42899-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 08839

AUTH: SCHALIT L.

CLSS: U

CCDE: DIAPHANOUS ; HEO ; DIANE

CONN: DASA 01 68 C 0116

CORP: SYSTEMS SCIENCE AND SOFTWARE (LA JOLLA-CA)
DATE: 6902
DESC: equation of state heat of vaporization thermal conductivity opacity
DESC: SUMMARY
REPN: 3 SR 32 VOL 4
SUJO: 9-710-000
TITL: PREPARATION OF OPTICAL DATA FOR RADIATION TRANSPORT AND
HYDRODYNAMICS CODE USAGE, VOLUME IV USER GUIDE TO OPTICAL PROPERTY
DATA NEEDS (U), 15 P (U)

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08839

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copy: 1 id: 42900-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 08849
AUTH: CAIN V.R. ; STRAKER E.A. ; THAYER G.
CLSS: U
CCDE: ETAREF
CORP: OAK RIDGE NATIONAL LABORATORY (OAK RIDGE-TN) ; UNIVERSITY OF
ILLINOIS (URBANA-IL)
DATE: 6902
DESC: Radiation Transport neutron
DESC: CODE THEORY
REPN: ORNL TM 1967
SUJO: 9-650-000
TITL: MONTE CARLO PATH LENGTH SELECTION ROUTINES BASED ON SOME SPECIFIC
FORMS OF THE IMPORTANCE FUNCTION (U), 37 P (U)
TREE: 970

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08849

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copy: 1 id: 42908-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 08862
ADNO: 500326
AUTH: GROSS G.J.
CLSS: SRD
CONN: F 04701 68 C 0200
CORP: AEROSPACE CORPORATION (SAN BERNARDINO-CA) ; AIR FORCE/SPACE AND
MISSILE SYSTEMS ORGANIZATION (LOS ANGELES-CA)
DATE: 6901
DESC: SIMULATION ; TABULAR
DESC: Nuclear RDT&E Research Program Descriptions x-ray effects
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers
DESC: equation of state heat of vaporization thermal conductivity opacity

L1 VARGLOSS PB HE NI FE NI FE BE CU NI QUARTZ AL SI KOVAR AU LEAD
GLASS

DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses
EFFT: X-RAY
REPN: SAMSO TR 69 71 ; TR 0200 (S 4975) 3
SUJO: 3-162-000 ; 3-221-000 ; 4-130-000 ; 9-710-000
TEMP: 63257
TITL: SENSITIVITY OF RADIATION EFFECTS TO SIMULATOR VARIATIONS (U), 46 P
(SRD)

TREE: 310 ; 620

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08862

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copy: 1 id: 42914-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 08912

AUTH: MUIR A.H. JR.

CLSS: U

CORP: NORTH AMERICAN ROCKWELL CORPORATION (THOUSAND OAKS-CA)

DATE: 6901

DESC: Nuclear Weapon Effects materials ceramics optical

DESC: SUMMARY

EFFT: NUCLEAR RADIATION

REPN: SCTR 69 1 PT 1

SUJO: 3-241-000

TITL: RADIATION EFFECTS IN GLASS AND RELATED MATERIALS APPLICATION TO
NUCLEAR SURVIVABILITY OF OPTICAL SYSTEMS, PART I GAMMA RAY AND
NEUTRON EFFECTS (U), 27 P(U)

TREE: 361

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08912

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copy: 1 id: 42982-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 08913

AUTH: MUIR A.H. JR.

CLSS: SRD 1

CORP: NORTH AMERICAN ROCKWELL CORPORATION (THOUSAND OAKS-CA)

DATE: 6901

DESC: Nuclear Weapon Effects materials ceramics optical

DESC: DISCUSSION OF OPACITY CODES ; SUMMARY

EFFT: NUCLEAR RADIATION ; X-RAY ; THERMAL

REPN: SCTR 69 1 PT 2

SHOT: MARSHMALLOW ; GUMDROP ; DOUBLE PLAY ; NATIVE MIST ; MILK SHAKE

SUJO: 3-241-000

TEMP: 63392

TITL: RADIATION EFFECTS IN GLASS AND RELATED MATERIALS APPLICATION TO
NUCLEAR SURVIVABILITY OF OPTICAL SYSTEMS, PART II THERMAL RADIATION
EFFECTS (U), 15 P (SRD)

TREE: 361

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08913

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copy: 1 id: 42983-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 08927

ADNO: 850684L

AUTH: KNIGHT R.L. ; DAY R.T. ; BUDWINE R.E.

CLSS: U

CCDE: INT ; GROUSE ; ZZ

CONN: F 29601 68 C 0012

CORP: DIKEWOOD CORPORATION (ALBUQUERQUE, NM) ; AIR FORCE/WEAPONS
LABORATORY (KIRTLAND AIR FORCE BASE, NM)

DATE: 6903

DESC: THEORY CODE

DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP

DESC: Radiation Transport neutron

EMPF: 223

REPN: AFWL TR 68 123 ; DC FR 2046

TSHO: LOW-ALT

SUJO: 2-510-000 ; 9-650-000

TITL: EMP ENVIRONMENTAL CODES FOR LOW-ALTITUDE BURSTS AND GROUND SOURCES
(U), 99 P (U)

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08927

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copy: 1 id: 42995-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 09102

ADNO: 500718

AUTH: VOGEL E.M. ; REXROAD R.E.

CLSS: SRD 1

CORP: ARMY/NUCLEAR DEFENSE LABORATORY (EDGEWOOD ARSENAL-MD)

DATE: 6902

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra

DESC: Nuclear Weapon Environment fallout down fraction

DESC: test instruments nuclear radiation gamma

DESC: Nuclear Weapon Environment Ground Shock craters excavations

DESC: EXPERIMENTAL

REPN: NDL TR 118

SHOT: CABRIOLET

TSHO: UG-VENTED

SUJO: 2-223-200 ; 2-225-200 ; 2-625-000 ; 4-341-000
TEMP: 63708
TITL: EVALUATION OF NDL GAMMA-RADIATION INSTRUMENTATION SYSTEM AT PROJECT
CABRIOLET (U), 22 P (SRD)

TREE: 651

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09102

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copy: 1 id: 43162-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 09113

AUTH: SCHALIT L.

CLSS: U

CCDE: HEO-1

CONN: DASA 01 68 C 0116

CORP: SYSTEMS SCIENCE AND SOFTWARE (LA JOLLA-CA)

DATE: 6903

DESC: Radiation Transport visible

DESC: THEORY

DESC: Radiation Transport thermal

DESC: Radiation Transport gamma

DESC: Fluid Mechanics hydrodynamics

REPN: 3SR 81

SUJO: 9-410-000 ; 9-610-000 ; 9-620-000 ; 9-630-000

TITL: SOME ANOMALIES IN PLANCK MEANS COMPUTED FROM HEO-1 DATA (U), 11 P
(U)

TREE: 980

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09113

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copy: 1 id: 43170-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 09260

ADNO: 501553L

AUTH: ORTH P.J. ; WILLIS W.W.

CLSS: SRD 1

CONN: F 04701 68 C 0200

CORP: AEROSPACE CORPORATION (SAN BERNARDINO-CA) ; AIR FORCE/SPACE AND
MISSILE SYSTEMS ORGANIZATION (LOS ANGELES-CA)

DATE: 6904

DESC: Nuclear RDT&E Research Program Descriptions integrated effects
system studies

DESC: SUMMARY

DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport

DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

DESC: Nuclear Warfare Strategic Survivability Security Safety L1
DESC: Nuclear RDT&E Research Program Descriptions x-ray effects
DESC: Nuclear RDT&E Research Program Descriptions thermal optical
REPN: TOR 0200 (S 4975) 8
SUJO: 3-422-100 ; 4-130-000 ; 4-140-000 ; 4-160-000 ; 4-170-000 ;
4-180-000
TEMP: 63775
TTTL: NUCLEAR HARDNESS ASSURANCE (U), CIRCA 200 P (SRD)
TREE: 610

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09260
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copy: 1 id: 43290-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 09265
AUTH: LEAVY J.F. ; POLL R.A.
CLSS: U
CONN: N 00014 68 C 0258
CORP: SYSTEMS SCIENCE AND SOFTWARE (LA JOLLA-CA)
DATE: 6905
DESC: EXPERIMENTAL
DESC: Simulation Facilities Techniques TREE
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers

EFFT: TREE
REPN: 3SR 76
SUJO: 3-221-000 ; 4-272-000
TTTL: RESEARCH TO INVESTIGATE THE MECHANISMS OF TRANSIENT RADIATION
INDUCED LATCHUP IN INTEGRATED CIRCUITS, FINAL REPORT (U), 74 P (U)
TREE: 200 ; 320

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09265
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copy: 1 id: 43294-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 09359
AUTH: STRAKER E.A. ; ENGLE W.W. JR. ; STEVENS P.N.
CLSS: U
CCDE: O5R ; MORSE ; ANISN
CORP: OAK RIDGE NATIONAL LABORATORY (OAK RIDGE-TN) ; UNION CARBIDE
CORPORATION (OAK RIDGE-TN) ; UNIVERSITY OF TENNESSEE (KNOXSVILLE-TN)
DATE: 6904
DESC: Radiation Transport neutron L1 AIR
DESC: SUMMARY
REPN: ORNL TM 2499
SUJO: 9-650-000

TITL: SOME CALCULATED MILESTONE SOLUTIONS TO TIME-DEPENDENT RADIATION
TRANSPORT PROBLEMS (U), 35 P (U)

TREE: 970

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09359

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copy: 1 id: 43376-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 09362

CLSS: SRD 1

CORP: KAMAN NUCLEAR (COLORADO SPRINGS-CO)

DATE: 6905

DESC: Nuclear Weapon Phenomenology Fireball Energy Partition Energy
Coupling

DESC: Nuclear Weapon Phenomenology Fireball Internal Pressure Temperature
Density Particle Velocities

DESC: Nuclear Weapon Environment Thermal Output rate

DESC: DRAFT OF EM-1 ; HANDBOOK

DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates

DESC: Radiation Transport thermal

DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity

DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air

REPN: KN 68 504 (R)

TSHO: SURFACE ; UW ; UG-VENTED ; HI-ALT

SUJO: 1-210-000 ; 1-240-000 ; 2-110-000 ; 2-130-000 ; 2-150-000 ;
5-200-000 ; 9-610-000

TEMP: 63907

TITL: THERMAL RADIATION PHENOMENA, CHAPTER 3 DRAFT (U), 179 P (SRD)

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09362

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copy: 1 id: 43379-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 09381

ADNO: 852537L

AUTH: MORRISSEY J.A. ; JACOBSON J.R.

CLSS: U

CORP: ARMY/NUCLEAR DEFENSE LABORATORY (EDGEWOOD ARSENAL-MD)

DATE: 6903

DESC: test instruments nuclear radiation neutron

DESC: SUMMARY

REPN: NDL TR 113

SUJO: 4-342-000

TITL: USE OF SOLID STATE DETECTORS WITH CONVERTER FOILS FOR NEUTRON
SPECTROSCOPY (U), 20 P (U)

TREE: 652

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09381

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copy: 1 id: 43404-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 09400

ADNO: 501960L

AUTH: FOUSE R.R. ; PAITCHEL H.

CLSS: S 3

CORP: NORTHROP CORPORATION (HAWTHORNE-CA) ; ARMY/PICATINNY ARSENAL
(DOVER-NJ)

DATE: 6904

DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses

DESC: EXPERIMENTAL

EFFT: X-RAY ; GAMMA ; NEUTRON

REPN: TR 3733

SUJO: 3-162-000

TEMP: 63958

TITL: NUCLEAR RADIATION EFFECTS INVESTIGATIONS OF ELECTROEXPLOSIVE DEVICES
(U), 55 P(S)

TREE: 394

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09400

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copy: 1 id: 43421-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 09402

AUTH: PROFIO A.E.

CLSS: U

CONN: W 7405 ENG 26

CORP: OAK RIDGE NATIONAL LABORATORY (OAK RIDGE-TN)

DATE: 6906

DESC: AIR ; THEORY

DESC: Cross Sections gamma

DESC: Cross Sections neutron

DESC: Radiation Transport neutron

DESC: Radiation Transport gamma

REPN: ORNL RSIC 25 (ANS SD 9)

SUJO: 9-620-000 ; 9-650-000 ; 9-820-000 ; 9-830-000

TITL: SHIELDING BENCHMARK PROBLEMS (U), 98 P (U)

TREE: 411 ; 412

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09402

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copy: 1 id: 43423-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09409
AUTH: BARR W.C.
CLSS: U
CORP: ARMY/ELECTRONICS COMMAND (FORT MONMOUTH-NJ)
DATE: 6904
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation
DESC: THEORY
DESC: General Atmospheric Properties
REPN: ECOM 3117
SUJO: 5-100-000 ; 5-800-000
TITL: ATMOSPHERIC ELECTRIC PROPERTIES (U), 29 P (U)

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09409

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copy: 1 id: 43430-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 09410
ADNO: 853516
AUTH: ROBBIANI R.L.
CLSS: U
CCDE: ZAP ; FLASH ; D FLASH
CORP: ARMY/ELECTRONICS COMMAND (FORT MONMOUTH-NJ)
DATE: 6902
DESC: Radiation Transport visible L1
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1
RAYLEIGH-AEROSOL SCATTERING OZONE-CO2 ABSORPTION
DESC: THEORY
DESC: nuclear test detection debris fallout
DESC: Meteorology
REPN: ECOM 3102
SUJO: 4-919-000 ; 5-200-000 ; 5-500-000 ; 9-630-000
TITL: MODERN ARMY MOBILE WEATHER RADAR AN/TPS-41 (U), 25 P (U)

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09410

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copy: 1 id: 43431-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09425
AUTH: CIFERSKY J.M. ; CORDWELL W.A. ; MATHERS H.W. ; NELSON W.D. ; SEDORE
S.R. ; SULLIVAN D.C.

CLSS: U
CONN: F 30602 68 C 0109
CORP: INTERNATIONAL BUSINESS MACHINES INCORPORATED (OWEGO-NY) ; AIR
FORCE/ROME AIR DEVELOPMENT CENTER (GRIFFISS AIR FORCE BASE-NY)
DATE: 6905
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits
DESC: EXPERIMENTAL
EFFT: TREE
REPN: 68 928 89 ; RADC TR 68 578
SUJO: 3-222-000
TITL: MODELING OF INTEGRATED CIRCUIT COMPONENTS FOR TRANSIENT RADIATION
RESPONSE PREDICTION, FINAL TECHNICAL REPORT (U), 139 P (U)
TREE: 330 ; 250

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09425

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copy: 1 id: 43441-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 09426

ABS: A computer program is presented that is designed to provide rapid access to reliable fallout predictions from a minimal amount of input data. The technique employs a completely dynamic approach in describing the physics of the fallout process and has been developed in close conjunction with important findings which have recently evolved from the research-oriented Department of Defense land fallout prediction system (DELFIC). Although the system is able to accept the variety of inputs normally available in cases of friendly strikes, the model is operational on the minimal amount of field data that might be expected to be available in cases of enemy attacks. The computer program features a wide assortment of output options to retain the flexibility needed to serve a variety of different interests.

ABS: In addition to a set of map generation routines which display exposure rate, total exposure, and time of arrival values, the program can provide a detailed analysis of the fallout field at any selected location. A maneuver dose option is also included to provide a capability to estimate exposures received by parties moving through the radiation field. The results of the simulations of nine U.S. Detonations with total yields ranging from 0.5 kT to 15 MT are included, together with the available activity measurements taken at those events. Results of comparisons between predictions and observations indicate that the system is capable of reproducing exposure rate observations well within a factor of 2 for H+1-HOUR exposure rates above 20 R H-1. For exposure rates below that value, the error between the prediction and the observations is no greater than 10 R H-1.

ADNO: 852969L

AUTH: WINEGARDNER D.K.

CLSS: U

CCDE: PROFET

CORP: ARMY/NUCLEAR DEFENSE LABORATORY (EDGEWOOD ARSENAL-MD)
DATE: 6905
DESC: Nuclear Weapon Phenomenology cloud Motion
DESC: Nuclear Weapon Environment Fallout Radioproperties
DESC: THEORY CODE
DESC: Nuclear Weapon Environment fallout Deposition
DESC: Nuclear Weapon Environment Fallout Particles
REPN: NDL TR 124
SUJO: 2-222-000 ; 2-223-000 ; 2-224-000 ; 2-225-000
TITL: PROFET-A RAPID METHOD FOR GENERATING FALLOUT PREDICTIONS FROM FIELD
DATA (U), 194 P (U)

TNFF: 4860

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09426

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copy: 1 id: 43442-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 09463

ADNO: 502264L

AUTH: ULBERG J.C.

CLSS: SRD 1

CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)

DATE: 6904

DESC: Radiation Transport neutron L1

REPN: NRDL TR 69 22

SUJO: 9-650-000

TEMP: 65078

TITL: NEUTRON TRANSPORT AND INTERACTION MODELS FOR STRATEGIC SYSTEM

VULNERABILITY STUDIES (U), 43 P (SRD)

TREE: 970

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 09466

AUTH: CRAMER S.N. ; CRAIN V.R. ; COVEYOU R.R. ; STEVENS P.N. ; STRAKER

E.A.

CLSS: U

CONN: W 7405 ENG 26

CORP: OAK RIDGE NATIONAL LABORATORY (OAK RIDGE-TN)

DATE: 6906

DESC: Radiation Transport neutron

DESC: THEORY

REPN: ORNL TM 2508

SUJO: 9-650-000

TITL: USE OF KERNELS IN STUDYING NEUTRON TRANSPORT PROBLEMS, THESIS (U),
153 P (U)

TREE: 970

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copy: 1 id: 43490-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 09526

ADNO: 853231

AUTH: VEIGELE W.J.

CLSS: U

CCDE: HATM

CONN: F 29601 68 C 0001

CORP: KAMAN NUCLEAR CORPORATION (COLORADO SPRINGS-CO) ; AIR FORCE/WEAPONS
LABORATORY(KIRTLAND AIR FORCE BASE-NM)

DATE: 6904

DESC: THEORY

DESC: Radiation Transport x-ray

REPN: AFWL TR 68 37 ; KN 009 68 3

SUJO: 9-640-000

TITL: INCOHERENT SCATTERING LINEWIDTH IN MONTE CARLO TRANSPORT CODES (U),
102 P (U)

TREE: 980

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 09530

AUTH: RENKEN J.H. ; ADAMS K.G.

CLSS: SRD 1

CORP: SANDIA CORPORATION (ALBUQUERQUE-NM)

DATE: 6903

DESC: Radiation Transport x-ray

DESC: Cross Sections x-ray

DESC: THEORY

REPN: SC RR 69 37 ; RS 3410/1347

SUJO: 9-640-000 ; 9-840-000

TEMP: 65208

TITL: CLASSIFIED TITLE (U), 87 P (SRD)

TREE: 980

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 09567
ADNO: 854710
AUTH: SCHAEFER R.R. ; STEVENS C.A.
CLSS: U
CONN: F 29601 68 C 0049
CORP: GULF GENERAL ATOMIC INCORPORATED (SAN DIEGO-CA) ; AIR FORCE/WEAPONS
LABORATORY(KIRTLAND AIR FORCE BASE-NM)
DATE: 6905
DESC: THEORY
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP
DESC: Radiation Transport neutron
EMPF: 240
REPN: AFWL TR 69 8 ; GA 9136
TSHO: LOW-ALT
SUJO: 2-510-000 ; 9-650-000
TITL: NEUTRON INDUCED ELECTRICAL SOURCES (U), 70 P (U)

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copy: 1 id: 43572-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 09570
ADNO: 854646
AUTH: WELLS M.B. ; COLLINS D.G. ; MARSHALL J.D.
CLSS: U
CCDE: LITE III
CONN: DA 28 04 AMC 00240 (E)
CORP: RADIATION RESEARCH ASSOCIATES INCORPORATED (FORT WORTH-TX) ;
ARMY/ELECTRONICS COMMAND (FORT MONMOUTH-NJ)

DATE: 6903
DESC: THEORY CODE
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity

DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air
REPN: RRA T 810 ; ECOM 00240 4
TSHO: LOW-ALT
SUJO: 1-210-000 ; 5-200-000
TITL: MONTE CARLO CALCULATIONS OF THE TRANSMISSION OF THERMAL RADIATION
FROM NUCLEAR DETONATIONS IN MODEL ATMOSPHERES, FINAL REPORT (U), 91
P (U)

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09570

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copy: 1 id: 43575-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09632
AUTH: RITTS J.J. ; SOLOMITO E. ; STEVENS P.N.
CLSS: U
CORP: OAK RIDGE NATIONAL LABORATORY (OAK RIDGE-TN) ; UNIVERSITY OF
TENNESSEE (KNOXVILLE-TN)
DATE: 6902
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L5
DESC: Cross Sections neutron L1 Human tissue values derived using
elemental cross sections
REPN: ORNL TM 2079 (REV.)
SUJO: 3-312-100 ; 9-820-000
TITL: CALCULATIONS OF NEUTRON FLUENCE-TO-KERMA FACTORS FOR THE HUMAN BODY,
TO BE PUBLISHED IN NUCLEAR APPLICATIONS (U), 32 P (U)

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copy: 1 id: 43617-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09642
ADNO: 850716L
AUTH: DURKEE R.K.
CLSS: U
CONN: DA 49 186 AMC 245 (X)
CORP: E G AND G INCORPORATED (SANTA BARBARA-CA)
DATE: 6901
DESC: SUMMARY
DESC: test instruments nuclear radiation neutron
DESC: test instruments nuclear radiation gamma
REPN: S 419 R
SUJO: 4-341-000 ; 4-342-000
TITL: RUGGEDIZED SENSOR PACKAGE FOR OPERATION MIGHTY SKY, PROJECT RP 203
(U), 33 P (U)
TREE: 651

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09694
AUTH: BERGMAN P. ; HEILFERTY R. ; GRIFF N.
CLSS: U
CORP: NAVY/NAVAL APPLIED SCIENCE LABORATORY (BROOKLYN-NY)

DATE: 6907
DESC: Nuclear Weapon Effects materials metals alloys
DESC: Nuclear Weapon Effects ship systems surface ships
EFFT: THERMAL
REPN: PROGRESS REPORT 10
SUJO: 3-122-000 ; 3-243-000
TITL: TEMPERATURE RESPONSE CHARTS FOR OPAQUE PLATES EXPOSED TO THE THER
THERMAL RADIATION PULSE FROM A NUCLEAR DETONATION (U), CIRCA 25 P
(U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 09695
AUTH: HANKS C.L. ; HAMMAN D.J.
CLSS: U
CONN: NASW 1568
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)
DATE: 6906
DESC: SURVEY
DESC: Nuclear Weapon Effects materials plastics resins
DESC: Nuclear Weapon Effects electrical mechanical cables wires
DESC: Nuclear Weapon Effects materials ceramics optical
REPN: REIC 46
SUJO: 3-231-000 ; 3-241-000 ; 3-244-000
TITL: EFFECT OF RADIATION ON ELECTRICAL INSULATING MATERIALS (U), 53 P (U)
TREE: 385

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 09701
AUTH: KERRIS K.G. ; AUBUCHON K.G. ; PERKINS C.W.
CLSS: U
CONN: NONR 4837 (00)
CORP: HUGHES AIRCRAFT COMPANY (FULLERTON-CA)
DATE: 6907
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers
EFFT: TREE
REPN: FR 69 10 203
SUJO: 3-221-000
TITL: RADIATION EFFECTS IN MAJORITY CARRIER DEVICES III, FINAL REPORT (U),
116 P (U)

TREE: 310
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09701
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copy: 1 id: 43672-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09709
AUTH: CRAMER S.N. ; SOLOMITO M.
CLSS: U
CCDE: SPACETRAN
CORP: OAK RIDGE NATIONAL LABORATORY (OAK RIDGE-TN)
DATE: 6906
DESC: Radiation Transport gamma L1
REPN: ORNL TM 2592
SUJO: 9-620-000
TITL: SPACETRAN: A CODE TO CALCULATE DOSE AT DETECTORS AT VARIOUS
DISTANCES FROM THE SURFACE OF A CYLINDER (U), 33 P (U)
TREE: 960
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09709
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copy: 1 id: 43678-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 09728
ADNO: 503267
AUTH: ROECKER E.T. ; JONAS G.H. ; BROWN C.J.
CLSS: S 3
CORP: ARMY/ABERDEEN RESEARCH AND DEVELOPMENT CENTER (ABERDEEN-MD)
DATE: 6906
DESC: X-RAY ; THEORY
DESC: Nuclear Weapon Effects materials plastics resins L1 NYLON PHENOLIC
DESC: Nuclear Weapon Effects materials metals alloys L1 ALUMINUM
DESC: Nuclear Weapon Effects materials coatings laminates L1
REPN: REPORT NO. 1439 ; BRL R 1439
SUJO: 3-243-000 ; 3-244-000 ; 3-245-000
TEMP: 65531
TITL: RADIATION ABSORPTION BY LAMINATED MATERIALS (U), 86 P (S)
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09728
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copy: 1 id: 43691-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 09735
ADNO: 856228L
AUTH: HUEBSCH I. O.
CLSS: U
CCDE: SHEAR ; DELFIC
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6907
DESC: Nuclear Weapon Environment fallout transport
DESC: THEORY
REPN: NRDL TR 69 72
SUJO: 2-224-200
TITL: WIND SHEAR, TURBULENCE AND INTERFACE CRITERIA FOR NUCLEAR-EXPLOSION
CLOUD, DEBRI FALLOUT MODELS (U), 47 P (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 09747P44
AUTH: PELCIK J.
CLSS: U
DATE: 6904
DESC: Simulation Facilities Techniques thermal optical
DESC: THEORY
SUJO: 4-280-000
SYMJ: PUBLISHED IN GEOSCIENCES AND TECHNOLOGY BULLETIN, VOLUME 6, NUMBER
4, APRIL 1969, AEROSPACE TECHNOLOGY DIVISION, LIBRARY OF LIBRARY OF
CONGRESS NUCLEAR WEAPONS EFFECTS-MODELING RADIATION EFFECTS OF
NUCLEAR WEAPONS (U), TRANSLATION, 12P (U)
TITL: NUCLEAR WEAPONS EFFECTS-MODELING RADIATION EFFECTS OF NUCLEAR
WEAPONS (U) TRANSLATION, 12 P (U)

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09747P44

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 09750
AUTH: DUPREE S.A.
CLSS: U
CCDE: LSODOSE
CORP: NAVY/NAVAL WEAPONS EVALUATION FACILITY (ALBUQUERQUE-NM)
DATE: 6906
DESC: THEORYTABULAR
DESC: Radiation Transport visible
DESC: Radiation Transport x-ray
DESC: Radiation Transport gamma

REPN: NWEF REPORT 1041
SUJO: 9-620-000 ; 9-630-000 ; 9-640-000
TITL: ALTITUDE SCALING OF PHOTON FLUXES IN AIR; PROGRAM ISODOSE (U), 38 P
(U)

TREE: 960 ; 980

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copy: 1 id: 43708-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 09751

ADNO: 503341L

AUTH: ATKINS M.C.

CLSS: SRD 1

CONN: AF 04 (694) 990

CORP: AVCO GOVERNMENT PRODUCTS GROUP (WILMINGTON-MA)

DATE: 6901

REPN: AVMSC 0852 67 RR VOL. 1 ; SAMSO TR 67 121 VOL. 1

TEMP: 65554

TITL: RADIATION DAMAGE STUDY PHASE II (RADS II), FINAL, VOLUME I, SUMMARY
(U), 57 P (S)

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copy: 1 id: 43709-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 09754

AUTH: LUNA R.E. ; CHURCH H.W. ; SHREVE J.D. ;

CLSS: SRD 1

CORP: SANDIA CORPORATION (ALBUQUERQUE-NM)

DATE: 6905

DESC: SUMMARY

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1 PU

DESC: Nuclear weapon safety radiological

DESC: Nuclear weapon test device physical operation construction geometry
materials components

REPN: RS 3410/1061 ; SC WD 69 154

SUJO: 3-312-220 ; 4-836-000 ; 4-838-100

TEMP: 65562

TITL: MODEL FOR PLUTONIUM HAZARD ASSESSMENTS BASED ON OPERATION ROLLER
COASTER, ATOMIC DATA, SIGMA 3 (U), 60 P (SRD)

TNFF: 8859

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09754

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copy: 1 id: 43710-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 09761
ADNO: 855858
AUTH: CUSHING D.L. ; MONG A.C. ; ROSENBERG C. ; UNWIN A.M.
CLSS: U
CCDE: TREC
CONN: F 29 601 68 C 0087
CORP: BOEING COMPANY (SEATTLE-WA)
DATE: 6906
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers
DESC: CODE USERS MANUAL
EFFT: TREE ; GAMMA ; NEUTRON
REPN: AFSWC TR 69 7 VOL. 2
SUJO: 3-221-000
TITL: TRANSISTOR RADIATION EFFECTS COMPILATION (TREC), VOLUME II, PROGRAM
MANUAL (U)
TREE: 310

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09761

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copy: 1 id: 43713-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 09767
ADNO: 503481
AUTH: HUNTINGTON J.H. ; HAMMOND J.A. ; SZYMANSKI D.R.
CLSS: SFRD 1
CONN: F 04611 69 C 0062
CORP: PHYSICS INTERNATIONAL COMPANY (SAN LEANDRO-CA) ; LOCKHEED PROPULSION
COMPANY
DATE: 6906
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects ordnance propellants solid
EFFT: NUCLEAR RADIATION
REPN: PIQR 143 1
SUJO: 3-164-000
TEMP: 65588
TITL: EFFECTS OF RADIATION ON PROPELLANT SYSTEMS, QUARTERLY REPORT (U), 48
P (SFRD)

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copy: 1 id: 43715-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 09781
ADNO: 856905
AUTH: THORN E. A.
CLSS: U
CORP: NAVY/NAVAL WEAPONS EVALUATION FACILITY (ALBUQUERQUE-NM)
DATE: 6905
DESC: Radiation Transport thermal
DESC: equation of state heat of vaporization thermal conductivity opacity
DESC: THEORY
DESC: Fluid Mechanics hydrodynamics
SUJO: 9-410-000 ; 9-610-000 ; 9-710-000
TITL: ANALYSIS OF HEAT TRANSFER IN A FOUR-LAYER SLAB; CONSTANT FLUX
ENTERING THE OUTSI AND ZERO FLUX LEAVING THE INNERMOST SURFACE (U),
56 P (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 09792
AUTH: MYNATT F.R. ; MUCKENTHALER F.J. ; STEVENS P.N.
CLSS: U
CCDE: FERDOR
CONN: W 7405 ENG 76
CORP: UNION CARBIDE CORPORATION (OAK RIDGE-TN) ; (OAK RIDGE-TN) ;
UNIVERSITY OF TENNESSEE (KNOXVILLE-TN)
DATE: 6908
DESC: Radiation Transport L1
DESC: EXPERIMENTAL THEORY
REPN: CTC INF 952
SUJO: 9-600-000
TITL: DEVELOPMENT OF TWO-DIMENSIONAL DISCRETE ORDINATES TRANSPORT THEORY
FOR RADIATION SHIELDING (U), 196 P (U)

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copy: 1 id: 43727-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09814
ADNO: 692699
AUTH: HUBBARD H.W.
CLSS: U
CCDE: ZZ

CORP: RAND CORPORATION (SANTA MONICA-CA)
DATE: 6907
DESC: nuclear test detection x-ray detection
DESC: Radiation Transport x-ray L1 AIR
DESC: THEORY TABULAR
REPN: RM 6033
SUJO: 4-915-000 ; 9-640-000
TITL: TRANSPORT CALCULATIONS PERTINENT TO SATELLITE DETECTION OF X RAYS
FROM NEAR EARTH NUCLEAR EXPLOSIONS (U), 33 P (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 09816
AUTH: THORN E.M.
CLSS: U
CCDE: TWIG
CORP: NAVY/NAVAL WEAPONS EVALUATION FACILITY (ALBUQUERQUE-NM)
DATE: 6905
DESC: Radiation Transport thermal
DESC: CODE
REPN: NWEF 1038
SUJO: 9-610-000
TITL: TWIG-A COMPUTER PROGRAM FOR CALCULATING UNIDIRECTIONAL TRANSIENT AND
STEADY STATE TEMPERATURE DISTRIBUTIONS IN ONE, TWO, AND THREE-LAYER
SLABS AND CYLINDERS--CONSTANT HEAT FLUX APPLIED TO OUTSIDE SURFACE
(U), 207 P (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 09833
ADNO: 688512
AUTH: OLSEN R.
CLSS: U
CORP: ATMOSPHERIC SCIENCES LABORATORY (WHITE SANDS MISSILE RANGE-NM)
DATE: 6903
DESC: Nuclear Test Simulation Field Programs experiment design airblast L1
BLAST-WIND
DESC: Nuclear Test Simulation Field Programs experiment design thermal L1
DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR L1
REPN: ECOM 5244
TSHO: HI-ALT

SUJO: 4-820-110 ; 4-820-600 ; 4-820-700
TITL: DESIGN PLAN FOR INVESTIGATING THE ATMOSPHERIC ENVIRONMENT ASSOCIATED
WITH HIGH ALTITUDE NUCLEAR TESTING (U), 24 (U)

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09833

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copy: 1 id: 43752-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 09839

ADNO: 688940

AUTH: MILLER CARL F.

CLSS: U

CCDE: ZZ

CONN: N 00228 68 C 2390

CORP: URS RESEARCH COMPANY (BURLINGAME-CA)

DATE: 6905

DESC: THEORY SUMMARY TABULAR

DESC: Nuclear Weapon Phenomenology cloud Motion

DESC: Nuclear Weapon Environment fallout Deposition

DESC: Nuclear Weapon Environment Fallout Particles

DESC: Nuclear Weapon Environment Fallout Radioproperties

DESC: Nuclear Weapon Environment fallout fractionation

REPN: URS 702 1 ; TRC 68 61

SUJO: 2-222-000 ; 2-223-000 ; 2-223-500 ; 2-224-000 ; 2-225-000

TITL: BIOLOGICAL AND RADIOLOGICAL EFFECTS OF FALLOUT FROM NUCLEAR
EXPLOSIONS, CHAPTER 3, DISTRIBUTION OF LOCAL FALLOUT (U), 117 P (U)

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copy: 1 id: 43758-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 09847

AUTH: MAIENSCHEIN F.C.

CLSS: U

CONN: W 7405 ENG 26

CORP: OAK RIDGE NATIONAL LABORATORY (OAK RIDGE-TN)

DATE: 6909

DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport

REPN: ORNL 4433

SUJO: 4-140-000

TITL: NEUTRON PHYSICS DIVISION ANNUAL PROGRESS REPORT (U), 122 P (U)

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copy: 1 id: 43763-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09916
AUTH: SUMMERS D.L. ; DAVIS L.W. ; KIRKPATRICK R.G. ; MILLER R.K.
CLSS: C
CONN: DAHC 20 68 C 0189
CORP: DIKEWOOD CORPORATION (ALBUQUERQUE-NM)
DATE: 6903
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt
DESC: Target Analysis civilians population at risk casualties L1
DESC: Nuclear Weapon Effects on animals blast shock
DESC: THEORY
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
DESC: Nuclear Weapon Effects on animals thermal burns heating
REPN: DC FR 1070
SUJO: 3-311-000 ; 3-312-100 ; 3-312-200 ; 3-313-100 ; 3-433-000
TEMP: 67092
TITL: COMPLETION OF URBAN CASUALTY PREDICTION MODEL FOR A HIGH-YIELD
NUCLEAR BURST (U), FINAL REPORT, 190 P, (U)

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copy: 1 id: 43810-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09920
AUTH: HORIYE H. ; BERGER R.A.
CLSS: U
CONN: N 00014 79 C 0261
CORP: GULF GENERAL ATOMIC INC. (SAN DIEGO-CA)
DATE: 6906
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits
DESC: TREE NUCLEAR RADIATION PERMANENT DAMAGE 103 ; THEORY EXPERIMENTAL
EFFT: TREE ; NUCLEAR RADIATION
REPN: GA 9398
SUJO: 3-221-000 ; 3-222-000
TEMP: 67086
TITL: TRANSIENT-RADIATION-INDUCED LATCHUP IN MICROCIRCUITS, FINAL REPORT
(U), 127 P,(U)

TREE: 320
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09920
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copy: 1 id: 43813-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 09926
ADNO: 502098
CLSS: U
CCDE: COBRA
CORP: C-E-I-R
DATE: 6906
DESC: Target Analysis cities L1
DESC: Target Analysis civilians population at risk casualties L1
DESC: THEORY
SUJO: 3-433-000 ; 3-434-000
TEMP: 67135
TITL: COMPREHENSIVE BLAST AND RADIATION ASSESSMENT SYSTEM (U), PREPARED
FOR HEADQUARTERS, U.S.A.F. ASS'T. CHIEF OF STAFF, STUDIES AND
ANALYSIS, CIRCA 120 P, (U)

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copy: 1 id: 43819-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09935
ADNO: 861044L
AUTH: ROSENBLATT M. ; ROMINE D.
CLSS: OUO
CONN: AF 04 (701) 68 C 0035
CORP: SHOCK HYDRODYNAMICS, INC. (SHERMAN OAKS-CA) ; AVCO CORPORATION
(WILMINGTON-MA)
DATE: 6903
REPN: AVMSD 0094 69 RR VOL. 4 ; BK.2
TITL: RADIATION DAMAGE STUDY PHASE III (RADS III), FINAL REPORT, VOLUME
VI ERROR ANALYSIS FOR FINITE DIFFERENCE SOLUTIONS OF CONVERGING WAVE
PROBLEMS BOOK TWO OF TWO BOOKS (U), 52 P (OUO)

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copy: 1 id: 43825-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 09939
AUTH: MARSHALL J.D.
CLSS: U
CONN: F 33657 69 C 0063
CORP: RADIATION RESEARCH ASSOCIATES (FORT WORTH-TX)
DATE: 6906
REPN: RRA T 94 1

TITL: MONTE CARLO PROCEDURES FOR TRANSPORT OF X-RAYS AND FLUORESCENT LIGHT
THROUGH ASPHERICAL, ALTITUDE-DEPENDENT ATMOSPHERE: VOL. I, X-RAY
TRANSPORT, FINAL REPORT (U), 67 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 09940

AUTH: MARSHALL J.D. ; WELLS M.B.

CLSS: SRD 1

CCDE: ZAP

CONN: F 33657 69 C 0063

CORP: RADIATION RESEARCH ASSOCIATES (FORT WORTH-TX)

DATE: 6906

DESC: THEORY

DESC: Radiation Transport x-ray L1

REPN: RRA T 94 2

SUJO: 9-640-000

TEMP: 67468

TITL: MONTE CARLO PROCEDURES FORTRANSPORT OF X-RAYS AND FLUORESCENT LIGHT
THROUGH A SP ALTITUDE-DEPENDENT ATMOSPHERE: VOL. II, X-RAY ENERGY
DEPOSITON AND TIME-DEPENDE CALCULATIONS, FINAL REPORT (U), 2L P
(SRD)

TREE: 980

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 09941

ADNO: 860802

AUTH: COLLINS D.G. ; LEOPARD F.O. ; MARSHALL J.D. ; WELLS M.B.

CLSS: U

CONN: F 33657 69 C 0063

CORP: RADIATION RESEARCH ASSOCIATES (FORT WORTH-TX)

DATE: 6906

REPN: RRA T 94 3

TITL: MONTE CARLO PROCEDURES FOR TRANSPORT OF X-RAYS AND FLUORESCENT LIGHT
THROUGH ASPHERICAL, ALTITUDE-DEPENDENT ATMOSPHERE: VOL. III,
FLUORESCENT LIGHT TRANSPORT REPORT (U), 112 P (U)

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cat1: cat2: home: STACKS current: STACKS
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INUM: 09942
ADNO: 505180
AUTH: BREEN W.M.
CLSS: SRD 1
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND ARI FORCE BASE-NM)
DATE: 6908
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
TREE SIMULATION(FLASH XRAY) XRAY
REPN: AFWL TR 69 94
SUJO: 3-222-000
TEMP: 67452
TITL: RADIATION VULNERABILITY OF INTEGRATED CIRCUITS (U), 61 P (SRD)
TREE: 320

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created: 12/27/1991 type: REPORT permanent
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INUM: 09955
AUTH: LEE B.T. ; WILTSHIRE L.L.
CLSS: U
CONN: DASA 01 68 C 0007
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6907
DESC: Nuclear Weapon Effects materials fibers textiles L1
DESC: Nuclear Weapon Effects structures aboveground cities L5
DESC: Nuclear Weapon Effects structures aboveground components L5
DESC: FIRE ; SUMMARY
REPN: NRDL TR 69 68
SUJO: 3-242-000 ; 3-251-100 ; 3-252-000
TITL: INVESTIGATION OF IGNITION AND FIRE SPREAD CHARACTERISTICS OF CLOTH
COVERED UPHOLSTERY AND CARPETING (U), 69 P (U)

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INUM: 09987
ADNO: 860470
AUTH: RAYMOND J.P. ; CHANG W.W. ; JOHNSON R.E. ; POCOCK D.N.
CLSS: U

CCDE: SCEPTRE
CONN: DAAB 07 67 C 0419
CORP: NORTHROP CORPORATE LABORATORIES (HAWTHORNE-CA)
DATE: 6909
DESC: TREE ; THEORY
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
REPN: NCL 69 36 R ; ECOM 0419 F
SUJO: 3-221-000 ; 3-222-000
TITL: GENERALIZED MODEL ANALYSIS OF INTEGRATED CIRCUIT VULNERABILITY (U)
FORMERLY GENERALIZED MODEL FOR SEMICONDUCTOR RADIATION RESPONSE
PREDICTION), FINAL REPORT, 1 APRIL 1967 TO 30 APRIL 1969, 243 P (U)

TREE: 250 ; 310 ; 320

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INUM: 09992

AUTH: SHELTON F.H. ; KEITH J.R.

CLSS: SRD CNWDI

CONN: DAHC 60 69 C 0007

CORP: KAMAN NUCLEAR CORPORATION (COLORADO SPRINGS-CO)

DATE: 6910

DESC: SPARTAN ; SUMMARY

DESC: Nuclear Warfare Strategic operations scenarios fratricide L1

MINUTEMAN SUMMARY

DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L1

REPN: KN 787 12 (R) ; KN 17023

SUJO: 1-610-000 ; 3-421-400

TEMP: 67248

TITL: SOME RADIATION EFFECTS PRODUCED BY CURRENT AND ADVANCED ABM SYSTEMS
(U), 10 P (SRD-CNWDI)

TREE: 930

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 09994

ADNO: 505140

AUTH: HUNTINGTON J.H. ; ROSSMAN R.V.

CLSS: SRD 1

CONN: F 04611 69 C 0062

CORP: PHYSICS INTERNATIONAL COMPANY (SAN LEANDRO-CA)
DATE: 6909
DESC: Nuclear Weapon Effects ordnance propellants solid L1 MINUTEMAN
DESC: SIMULATION (ELECTRON BEAM) ; EXPERIMENTAL
REPN: PIQR 143 2 ; AFRPL TR 69 226
SHOT: DIESEL TRAIN
SUJO: 3-164-000
TEMP: 67270
TITL: EFFECTS OF RADIATION ON PROPELLANT SYSTEMS (U), 37 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 10000
ADNO: 505086L
AUTH: TRIMER P.A.
CLSS: SRD 1
CORP: HARRY DIAMOND LABORATORIES (WASHINGTON-DC)
DATE: 6906
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L9 P39
DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses L1
TREE
REPN: TR 1370
SHOT: DILUTED WATERS
TSHO: UG-CONTAINED
SUJO: 1-110-000 ; 3-162-000
TEMP: 67411
TITL: RADIATION EFFECTS, T 3024 FUZE (U), 50 P (SRD)
TREE: 394

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copy: 1 id: 43871-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10046
ADNO: 505726
AUTH: WRIGHT W.P.
CLSS: SRD 1
CORP: ARYM/BALLISTIC RESEARCH LABORATORIES (ABERDEEN PROVING GROUND-MD)
DATE: 6909
REPN: BRL 1452
TEMP: 67744
TITL: THEORETICAL RESULTS DESCRIBING THE KING FISH HIGH ALTITUDE

DETONATION UTILIZING THE BRL RADIATION HYDRODYNAMIC CODES (U), 392 P
(SRD)

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copy: 1 id: 43898-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10065

CLSS: SRD 1

CCDE: DRAD ; VERA ; TOIL ; RADISH ; HELP ; OIL ; CORONET ; WILDEBEEST ;
INDIGO ; MEG ; HIBALL ; LUDWIG ; MESA ; CEL ; AFTON ; HEMP

CORP: DASA INFORMATION AND ANALYSIS CENTER (SANTA BARBARA-CA)

DATE: 6904

DESC: Radiation Transport x-ray L1

DESC: test instruments x-ray effects L1

DESC: Fluid Mechanics hydrodynamics L1

REPN: TMP 65054

SHOT: DOOR MIST ; DIANA ; MOON ; SNUBBER ; HUPMOBILE ; PLAID

SUJO: 4-330-000 ; 9-410-000 ; 9-640-000

TEMP: 65054

TITL: DASA OUTPUT WORKING GROUP MEETING, HELD 22-24 APRIL 1969 AT DASA
INFORMATION AND ANALYSIS CENTER (U), 41 P (SRD)

TREE: 980

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10071

ABS: Radiant exposure data from U.S. Nuclear weapon (device) tests were
assembled and analyzed. The results were used to formulate a method
for predicting free-field (no reflection) radiant exposures.

Conditions for which the prediction method is applicable are : (1)
yields (W) from 0.001 kt to 1,000,000 kt, (2) surface bursts and
air-bursts ranging from a burst height of .05W.4 km for W in kt to
an altitude of 750 km and (3) surface and airborne
(quasi-stationary) receivers. Included in the study are analytical
expressions for thermal-yield partition and transmission of thermal
radiation through air and oceanic haze both as a function of yield
and air density.

ADNO: 505883L

AUTH: ALEXANDER T.A. ; SHNIDER R.W.

CLSS: SRD

CORP: NAVY/RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)

DATE: 6907

DESC: Nuclear Weapon Environment Thermal Output source strength total

intensity L1

DESC: SUMMARY OF DATA WITH SCALING

REPN: USNRDL TR 69 53 ; NRDL TR 69 53

SHOT: BAKER (B-J) ; CHARLIE (B J) ; DOG (B J) ; EASY (B-J) ; ABLE (T-S) ;
BAKER (T-S) ; CHARLIE (T-S) ; DOG (T-S) ; RUTH ; DIXIE ; RAY ;
ENCORE ; GRABLE ; CLIMAX ; WASP ; MOTH ; HORNET ; BEE ; APPLE I ;
WASP PRIME ; HA ; CHEROKEE ; KICKAPOO ; BOLTZMANN ; WILSON ;
PRISCILLA ; HOOD ; JOHN ; OWENS ; STOKES ; DOPPLER ; FRANKLIN ;
SMOKY ; YUCCA ; ORANGE ; TEAK ; QUAY ; HAMILTON ; RIO ARRIBA ;
RUSHMORE ; SANFORD ; DE BACA ; SANTA FE ; AZTEC ; ARKANSAS ; QUESTA
; YUKON ; MESILLA ; MUSKEGON ; ENCINO ; SWANEE ; CHETCO ; TANANA ;
NAMBE ; ALMA ; TRUCKEE ; YESO ; HARLEM ; RINCONADA ; DULCE ; OTOWI ;
BIGHORN ; BLUESTONE ; STARFISH ; SUNSET ; PAMLICO ; CHAMA ; BLUEGILL
; CALAMITY ; HOUSATONIC ; KINGFISH ; TIGHTROPE ; MIKE ; BRAVO ;
ROMEO ; UNION ; YANKEE ; NECTAR ; LACROSSE ; ZUNI ; FLATHEAD ;
DAKOTA ; APACHE ; NAVAJO ; TEWA ; HURON ; FIR ; BUTTERNUT ;
YELLOWWOOD ; MAGNOLIA ; MAPLE ; WALNUT ; REDWOOD ;

SHOT: ELDER ; OAK ; CEDAR ; DOGWOOD ; FIG ; SMALL BOY

TSHO: LOW-ALT ; SURFACE ; HI-ALT

SUJO: 1-210-000

TEMP: 67855

TITL: RADIANT EXPOSURES FROM AIR AND SURFACE NUCLEAR BURSTS (U), 102 P,
(SRD)

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copy: 1 id: 43915-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10074

AUTH: CROWLEY D.P. ; LADROGA W.J.

CLSS: SRD

CONN: F 04701 68 C 0035

CORP: AVCO GOVERNMENT PRODUCTS GROUP (WILMINGTON-MA)

DATE: 6901

DESC: Simulation Facilities Techniques x-ray effects L1 TECHNIQUES

DESC: Cross Sections x-ray L1

DESC: Solid Mechanics stress-strain L5

DESC: Nuclear Weapon Effects materials ceramics optical L1 QUARTZ SILICA
SAPPHIRE PYREX OTHERS

DESC: Nuclear Weapon Effects materials plastics resins L1 PHENOLIC TEFLON
MYLAR OTHERS

DESC: Nuclear Weapon Effects materials metals alloys L1 AL BE CA C CH N1
AU PB MG MO FE TA W U ZN

DESC: PHYSICAL-MECHANICAL-SHOCK-THERMAL-CHEMICAL-ELECTRICAL PROPERTIES ;
HANDBOOK TABULAR

DESC: equation of state heat of vaporization thermal conductivity opacity
L5 EOS 71 MATERIALS

REPN: SAMSO TR 69 158 VOL X BK 1

SUJO: 3-241-000 ; 3-243-000 ; 3-244-000 ; 4-231-000 ; 9-230-000 ;
9-710-000 ; 9-840-000

TEMP: 67830
TITL: RADIATION DAMAGE STUDY PHASE III (RADS III) FINAL REPORT, MATERIALS
DATA HANDBOOK (U), VOLUME X, BOOK 1, 382 P, (SRD)

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copy: 1 id: 43917-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 10075
AUTH: CROWLEY D.P. ; LADROGA W.J.
CLSS: SRD
CONN: F 04701 68 C 0035
CORP: AVCO GOVERNMENT PRODUCTS GROUP (WILMINGTON-MA)
DATE: 6901
DESC: Cross Sections x-ray L1
DESC: Nuclear Weapon Effects materials plastics resins L1 AVCOAT PHENOLIC
MYLAR TEFLON OTHERS
DESC: equation of state heat of vaporization thermal conductivity opacity
L5 EOS 71 MATERIALS
DESC: Nuclear Weapon Effects materials metals alloys L1 AL BE CA C CH NI
AU PB MG MO FE TA W U ZN
DESC: Solid Mechanics stress-strain L5
DESC: PHYSICAL-MECHANICAL-SHOCK-THERMAL-CHEMICAL-ELECTRICAL PROPERTIES ;
HANDBOOK TABULAR
DESC: Nuclear Weapon Effects materials ceramics optical L1 QUARTZ SILICA
SAPPHIRE PYREX GLASS OTHERS
REPN: SAMSO TR 69 158 VOL X BK II
SUJO: 3-241-000 ; 3-243-000 ; 3-244-000 ; 9-230-000 ; 9-710-000 ;
9-840-000
TEMP: 67831
TITL: RADIATION DAMAGE STUDY PHASE III (RADS III), FINAL REPORT, MATERIALS
DATA HANDBOOK (U), VOLUME X, BOOK II, 360 P, (SRD)

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copy: 1 id: 43918-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 10093
ADNO: 506 671
AUTH: YOS J.M.
CLSS: SRD
CCDE: XIP II
CONN: F 04701 68 C 0035
CORP: AVCO SYSTEMS AND APPLIED TECHNOLOGY DIVISIONS (WILMINGTON-MA)
DATE: 6903
DESC: Fluid Mechanics hydrodynamics L1

DESC: LISTING AND TEST PROBLEMS
DESC: equation of state heat of vaporization thermal conductivity opacity
L1 EQUATION-OF-STATE CURVE FITS AL W BRASS BE C OTWR C-PHEN AVCZ
MYLAR EPOXY
REPN: AVMSD 0094 69 RR VOL IV ; SAMSO TR 69 158 VOL. IV
SUJO: 9-410-000 ; 9-710-000
TEMP: 69330
TITL: RADIATION DAMAGE STUDY PHASE III (RADS III), FINAL REPORT, VOLUME
IVONE-DIMENSIONAL MATERIAL RESPONSE; MODIFICATIONS TO THE XIP II
CODE (U), FINAL REPORT, JANUARY 1968-31 DECEMBER 1968, 254 P, (SRD)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10118
AUTH: WELLS M.B. ; MARSHALL J.D.
CLSS: U
CORP: RADIATION RESEARCH ASSOCIATES (FORT WORTH-TX)
DATE: 6907
DESC: Radiation Transport gamma L1
DESC: Radiation Transport neutron L1
DESC: STEEL CONCRETE ; THEORY
REPN: RRA T 97 1
SUJO: 9-620-000 ; 9-650-000
TITL: DIFFERENTIAL NEUTRON AND SECONDARY GAMMA-RAY ALBEDOS FOR
STEEL-COVERED CONCRETE SLABS. VOL. I; DESCRIPTION OF CALCULATIONS
AND COMPARISONS WITH OTHER DATA (U), 54 P (U)

TREE: 411 ; 412

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INUM: 10123
CLSS: U
CCDE: AMOEBA ; BRECOMP ; EFT ; HO40 ; INDIGO ; INDIGO-MC ; KODAK ; NEWT ;
PHOTRAN ; TOAD ; CHART ; CHART-D ; DRAD ; FIREBALL ; GARTH-1S ;
HAROLD ; HECTIC ; IMTRAN ; INDIGO-DO ; INDIGO-MM ; KN-FIRE 2 ;
OUTPUT ; RADOIL ; SPUTTER ; SPECTER ; TRAN ; VERA ; VERA 2D ;
WILDEBEEST ; WOTAN ; Z0053 ; ANEOS ; DIANE ; DIAPHANOUS ; HALIDE ;
THERMOS ; THEOS ; ZINC ; LINEAR ; MONTE ; NOTE ; SPHERE ; TIME VL
CONN: DASA 01 69 C 0052
CORP: SYSTEMS SCIENCE AND SOFTWARE (LA JOLLA-CA)
DATE: 6911
DESC: CODE CATALOG

REPN: 3 SCR 166 3
TITL: PROCEEDINGS OF THE 1969 CONFERENCE ON RADIATION TRANSPORT (U),
VOLUME III, CATALOG OF COMPUTER CODES, 55 P, (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 10124
ADNO: 506129L
AUTH: CASSIDY S.H. ; JONES T.H. ; ULBERG J.C.
CLSS: SRD 1
CCDE: CCI
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 6907
DESC: Nuclear Warfare Strategic Survivability Security Safety L1
DESC: CODE
DESC: Nuclear Warfare Strategic models L1
REPN: NRDL TR 69 77
SUJO: 3-422-100 ; 3-422-900
TEMP: 67893
TITL: METHODOLOGY FOR DETERMINING STRATEGIC SYSTEM NUCLEAR
SURVIVABILITY/VULNERABILITY BOUNDARIES (U), 118 P., (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 10125
ADNO: 506 062L
AUTH: JONES T.H. ; ULBERG J.C.
CLSS: SRD 1
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6907
DESC: General Atmospheric Properties L9 P6
DESC: Nuclear Warfare Strategic operations scenarios battlefield
environment L1
DESC: Nuclear Weapon Effects ordnance bombs mines warheads L9
DESC: Radiation Transport neutron L9 AIR P13
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L9 P82 MANY DIFFERENT WEAPONS
DESC: Nuclear Weapon Environment Airblast static overpressure
OVERPRESSURE.L9 P68
DESC: Radiation Transport thermal L9 AIR P56
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L9 P82

DESC: Radiation Transport x-ray L9 AIR P35
DESC: Nuclear Weapon Effects Military Systems L5
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L9 P 77
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L9 P82
DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L9 P82
DESC: SUMMARY HANDBOOK
DESC: Radiation Transport gamma L9 AIR P43
REPN: NRDL TR 69 67
SUJO: 1-110-000 ; 1-210-000 ; 1-610-000 ; 1-710-000 ; 2-510-000 ;
2-611-000 ; 3-100-000 ; 3-161-000 ; 3-421-200 ; 5-100-000 ;
9-610-000 ; 9-620-000 ; 9-640-000 ; 9-650-000
TEMP: 67894
TITL: HANDBOOK OF NUCLEAR ENVIRONMENTS AND SOURCE MODELS FOR STRATEGIC
SYSTEM VULNERABILITY (U), 94 P, (SRD)

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created: 12/27/1991 type: REPORT permanent
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INUM: 10135
CLSS: U
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)
DATE: 6910
REPN: REIC 127
TITL: RADIATION EFFECTS IFNORAMTION CENTER, ONETHLY SELECTED ACCESSION
LIST, ABSTRACT NO. 41250 TO 41296 (U), 21 P (U)

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copy: 1 id: 43960-1001 library: DOCUMENT price: \$.00
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created: 12/27/1991 type: REPORT permanent
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INUM: 10138
CLSS: U
CCDE: SEMPAC
CONN: DAHC 60 69 C 0008
CORP: BELL TELEPHONE LABORATORIES (WHIPPANY-NJ)
DATE: 6911
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 NUCLEAR RADIATION
DESC: EXPERIMENTAL THEORY
DESC: Nuclear Weapon Effects missile systems ABM L5
SUJO: 3-112-200 ; 3-221-000
TITL: WEAPONS EFFECTS STUDIES, VOLUME 2, RADIATION EFFECTS ON INTERCEPTOR
ELECTRONICS 87 P (U)

TREE: 392

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10141

AUTH: TARKA J.E.

CLSS: U

CORP: GENERAL ELECTRIC COMPANY/SPACE SYSTEMS (VALLEY FORGE-PA)

DATE: 6911

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TREE NUCLEAR RADIATION PERMANENT
DAMAGE

REPN: 69 SD 323

SUJO: 3-221-000

TITL: MECHANISMS OF RADIATION INITIATED SEMICONDUCTOR DEVICE FAILURES, A
TREATISE INSEMICONDUCTOR SURVIVABILITY (U), 223 P (U)

TREE: 200

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10150

ADNO: 697901

AUTH: STRAKER E.A. ; GRITZNER M.L.

CLSS: U

CORP: OAK RIDGE NATIONAL LABORATORY (OAK RIDGE-TN)

DATE: 6912

DESC: Radiation Transport neutron L1

REPN: ORNL 4464

SUJO: 9-650-000

TITL: NEUTRON AND SECONDARY GAMMA-RAY TRANSPORT IN INFINITE HOMOGENEOUS
AIR (U), 411P (U)

TREE: 970

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copy: 1 id: 43969-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10172

AUTH: SAPPENFIELD D.
CLSS: CFRD 1
CONN: W 7405 ENG 36
CORP: LOS ALAMOS SCIENTIFIC LABORATORY (LOS ALAMOS-NM)
DATE: 6910
DESC: Nuclear Weapon Phenomenology High-Altitude induced airglow
fluorescence L1
DESC: THEORY
REPN: LA 4303
SUJO: 2-214-000
TEMP: 69051
TITL: RADIATION FROM A RECOMBINING OXYGEN PLASMA (U), 18 P (CFRD)

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INUM: 10199

ABS: This series provides a sourcebook for the most accurate and detailed data currently available for the nuclear free-field environment requirements for ABM materials-hardening research studies. The free-field environment definition problem has been separated into two areas : weapon output and atmospheric transport (gas dynamics or radiation transport). An effort has been made to present the atmospheric transport calculations in sufficient generality that they can be readily coupled to specific weapon outputs. Recommendations for future work designed to augment the data where gaps exist and large inaccuracies prevail are given.

ADNO: 512560L

AUTH: QUIGLEY E.F. ; TOMPKINS R.C. ; HARDIN L.M.

CLSS: SRD 1

CORP: ARMY/BALLISTIC RESEARCH LABORATORIES (ABERDEEN PROVING GROUNDS-MD)

DATE: 7010

DESC: Nuclear Weapon Environment dust moisture injection atmosphere L1

CASTLE SUN BEAM REDWING

DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1

DESC: Nuclear Weapon Phenomenology Fireball Internal Pressure Temperature

Density Particle Velocities L1 TEMPERATURE

DESC: Nuclear Weapon Phenomenology cloud shape size L1

DESC: Nuclear Weapon Environment Thermal Output rate L1

DESC: SOURCEBOOK

DESC: Nuclear Weapon Environment Visible Output rate L1

REPN: BRL R 1494 V6

SHOT: BRAVO ; TEWA ; ZUNI ; LACROSSE ; SMALL BOY

TSHO: SURFACE ; LOW ALT ; HI ALT

SUJO: 1-240-000 ; 1-440-000 ; 2-110-000 ; 2-130-000 ; 2-222-400 ;

2-224-140

TEMP: 75402

TITL: SOURCEBOOK FOR FREE FIELD NUCLEAR ENVIRONMENT DATA: FREE FIELD
THERMAL AND DUST ENVIRONMENTS, VOLUME 6 (U), 62 P, (SRD)

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INUM: 10213
AUTH: SIMONS D.G. ; MADIGOSKY S.W.
CLSS: U
CCDE: MOPET ; EXPET
CORP: NAVY/NAVAL ORDNANCE LABORATORY (SILVER SPRING-MD)
DATE: 6910
DESC: Radiation Transport gamma L1
DESC: PHOTONS MULTIPLE SLABS
DESC: Radiation Transport x-ray L1
REPN: NOLTR 69 172
SUJO: 9-620-000 ; 9-640-000
TITL: MONTE CARLO CODE TO SIMULATE PHOTON ENERGY DEPOSITION AND TRANSPORT
IN MULTIPLE ABSORBERS-MOPET (U), 88 P (U)
TREE: 980

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created: 12/27/1991 type: REPORT permanent
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INUM: 10230
AUTH: HORAK H.G. ; KERR D.M. ; TIERNEY M.S.
CLSS: U
CORP: LOS ALAMOS SCIENTIFIC LABORATORY (LOS ALAMOS-NM)
DATE: 6911
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry
general descriptions L1
DESC: SIMULATION (GAS CLOUD) ; EXPERIMENTAL
DESC: Composition Chemistry Atmosphere Reaction Rates L1
REPN: LA 4313
SUJO: 2-311-000 ; 5-400-000
TITL: RESONANCE RADIATION IN ARTIFICIAL STRONTIUM AND BARIUM CLOUDS (U),
26 P (U)

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INUM: 10239
ADNO: 502106
AUTH: LIBBEY A.H. ; FREDRICKSON P.B. ; CREWSON W.F. ; KRAEMER J.H. ;
DOBBIE C.B.
CLSS: U
CONN: AF 29 (601) 7239
CORP: EG+G INCORPORATED (BEDFORD-MA)
DATE: 6910
DESC: Nuclear Weapon Effects electronic pieceparts measuring devices
sensors detectors L1 MAGNETIC FIELD SENSORS NUCLEAR RADIATION
DESC: Simulation Facilities Techniques EMP L1 STIMULATOR PORTATABLE
SIMULATOR
EMPF: 820
REPN: AFWL TR 69 58 VOL. 2
SHOT: AJAX
SUJO: 3-224-000 ; 4-271-000
TITL: DEVELOPMENT OF HARDENED MAGNETIC FIELD SENSORS (MODELS CML-IA, IB,
AND CML-2A, 2B), VOLUME II (U), 188 P. (U)
TREE: 365

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created: 12/27/1991 type: REPORT permanent

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INUM: 10248
ADNO: 506895L
AUTH: AVRAMI L. ; VORECK W.E.
CLSS: CRD
CORP: PICATINNY ARSENAL (DOVER-NJ)
DATE: 6911
DESC: SIMULATION (REACTOR) NEUTRON GAMMA ; EXPERIMENTAL
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources L5
DESC: Nuclear Weapon Effects ordnance explosives L1
DESC: Nuclear Weapon Effects ordnance propellants solid L1
REPN: TECHNICAL REPORT 3782
SUJO: 3-163-000 ; 3-164-000 ; 4-241-000
TEMP: 69543
TITL: DETERMINATION OF REACTOR-RADIATION-RESISTANT EXPLOSIVES, PROPELLANTS
AND RELATED MATERIALS (U), 261 P, (CRD)

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INUM: 10249

AUTH: MYNATT F.R. ; WILLIAMS L.R.
CLSS: SRD
CORP: OAK RIDGE NATIONAL LABORATORY (OAK RIDGE-TN)
DATE: 7001
DESC: THEORY
REPN: ORNL TR 2824 ; DASA 70 02483
TEMP: 69548
TITL: ANALYSIS OF THE EFFECT OF STREAMING PATHS ON THE RADIATION SHIELDING
CAPABILITY OF A MISSILE SILO COVER SHIELD (U), 41 P, (SRD)

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INUM: 10307
ADNO: 503838L
AUTH: BEHRENS W.V.
CLSS: SRD 1
CONN: DA 1 X 579191 B 33401
CORP: HARRY DIAMOND LABORATORIES (WASHINGTON-DC)
DATE: 6905
DESC: Nuclear Weapon Effects missile systems tactical L1 SHILLELAGH
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: Nuclear Weapon Effects electronic subsystems guidance control L1
DESC: NEUTRONS GAMMA. SIMULATION (TRIGA MARK F) ; EXPERIMENTAL
REPN: TR 1442
TSHO: LO-ALT
SUJO: 3-112-300 ; 3-211-000 ; 3-221-000
TEMP: 69932
TITL: NUCLEAR RADIATION EFFECTS ON THE SHILLELAGH MISSILE SYSTEM (U), 140
P (SRD)
TREE: 392

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created: 12/27/1991 type: REPORT permanent

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INUM: 10309
ADNO: 507 720L
AUTH: KOWALCZYK F.S.
CLSS: SRD 1
CONN: F 04701 68 C 0035
CORP: AVCO GOVERNMENT PRODUCTS GROUP (WILMINGTON-MA)
DATE: 6903
DESC: Nuclear Weapon Effects materials ceramics optical L1 FUSED SILICA

PYROLYTIC BORON NITRIDE QUARTZ RUG

DESC: Nuclear Weapon Effects materials composites L1 3D QUARTZ PHENOLIC 3
D CARBON

DESC: X-RAY ; SUMMARY

DESC: Nuclear Weapon Effects materials coatings laminates L1 WC-C

DESC: Nuclear Weapon Effects materials fibers textiles L1 30 QUARTZ
PHENOLIC 3D GRAPHITE BPG ATJS

REPN: SAMSO TR 69 158 VOL 7 ; AVMSD 0094 69 RR VOL 7

SHOT: UMBER ; MIDI MIST ; DOOR MIST ; DORSAL FIN

SUJO: 3-241-000 ; 3-242-000 ; 3-245-000 ; 3-249-000

TEMP: 69924

TITL: RADIATION DAMAGE STUDY PHASE 3 (RADS 3), FINAL REPORT, VOLUME VII,
REVIEW OF UNDERGROUND TEST DATA ON ADVANCED HARDENING CONCEPTS (U),
80 P (SRD)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10310

ADNO: 507688

AUTH: OLSON J.T. ; ROLINCIK P.G.

CLSS: SRD 1

CONN: AF04 694 990

CORP: AVCO GOVERNMENT PRODUCTS GROUP (WILMINGTON-MA)

DATE: 6906

DESC: Nuclear Weapon Effects materials plastics resins L1 QUARTZ PHENOLIC

DESC: Nuclear Weapon Effects reentry systems RV L1

DESC: X RAY ; EXPERIMENTAL

REPN: AVMSD 0852 67 CR VOL 12

SHOT: DORSAL FIN

SUJO: 3-113-000 ; 3-244-000

TEMP: 69858

TITL: RADIATION DAMAGE STUDY PHASE II RADS II, VOLUME XII, HARDENED SHELL
PRELIMINARY INVESTIGATION, FINAL REPORT (U), 128 P, (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 10328

ADNO: 507 766

AUTH: MAZZOLA J.H.

CLSS: SRD 1

CONN: F 04701 68 C 0035

CORP: AVCO GOVERNMENT PRODUCTS GROUP (WILMINGTON-MA)

DATE: 6903
DESC: X-RAY SIMULATION (HI-ALT) ; SUMMARY
DESC: Nuclear Weapon Effects materials plastics resins L5 3D QUARTZ
PHENOLIC TWSP TEFLON
DESC: Nuclear Weapon Effects materials metals alloys L5 STAINLESS STEEL
BE-CU TITANIUM
DESC: Nuclear Weapon Effects materials fibers textiles L5 3D QUARTZ
PHENOLIC TWSP GRAPHITE
DESC: Nuclear Weapon Effects reentry systems pen aids L1 GENERIC-DESIGN
DECOYS
REPN: AVMSD 0094 69 RR VOL 2 ; SAMSO TR 69 158 VOL 2
SHOT: MIDI MIST ; MING VASE ; MILK SHAKE ; DOOR MIST ; DORSAL FIN
TSHO: UG-CONTAINED
SUJO: 3-117-000 ; 3-242-000 ; 3-243-000 ; 3-244-000
TEMP: 69923
TITL: RADIATION DAMAGE STUDY PHASE 3 (RADS 3), FINAL REPORT, VOLUME 2,
VULNERABILITY AND HARDENING ANALYSES OF REPRESENTATIVE DECOY
CONFIGURATIONS (U), 94 (SRD)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10357
ADNO: 507898L
AUTH: ERKKILA J.H.
CLSS: SRD 1
CONN: DASA MIPR 544 68
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 7003
DESC: Simulation Facilities Techniques nuclear radiation fallout
simulation L1
DESC: Nuclear Weapon Environment Fallout Radioproperties L1 LATE TIME
LEACHING OF ACTIVITY
DESC: SUMMARY EXPERIMENTAL
EMPF: 211 ; 221
REPN: AFWL TR 69 89
SHOT: SHASTA
TSHO: LOW-ALT
SUJO: 2-223-000 ; 4-242-000
TEMP: 69967
TITL: EARLY TIME EMP GENERATED DURING THE STARFISH EVENT (U), 56 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 10370
ADNO: 507983L
AUTH: HUNTINGTON J.H. ; ROSSMAN R.V. ; HAMMOND J.A. ; SZYMANSKI D.R.
CLSS: SFRD 1
CORP: PHYSICS INTERNATIONAL COMPANY, LOCKHEED PROPULSION COMPANY LOCKHEED
PROPULSIONCOMPANY
DATE: 7003
DESC: Nuclear Weapon Effects ordnance propellants solid L1 AMMONIUM
PERCHLORATE LPC-625A CHLORINE TRIFLUORIDE NITROGEN TETROXIDE
HYDRAZINE
DESC: PRE-TEST VERIFICATION SIMULATION (ELECTRON BEAM) ; EXPERIMENTAL
REPN: AFRPL TR 69 254 ; PIQR 143 3 ; CD 9 269B
SHOT: DIESEL TRAIN
SUJO: 3-164-000
TEMP: 69922
TITL: EFFECTS OF RADIATION ON PROPELLANT SYSTEMS (U), 31 P, (SFRD)

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INUM: 10382
ADNO: 507946
AUTH: EVANS R.D.
CLSS: SRD 1
CCDE: FURRY, ELTRAN, X1P, DEB1, PUFF, PEP
CONN: F 04701 68 C 0035
CORP: AVCO GOVERNMENT PRODUCTS GROUP (WILMINGTON-MA)
DATE: 6903
DESC: test instruments test hardware pressure stress L1
DESC: test instruments test hardware impact impulse L1
DESC: Nuclear Weapon Effects materials metals alloys L1
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L9 P 8
REPN: AVMSD 0094 69 RR VOL 5 ; SAMSO TR 69 158 VOL 5
SHOT: SCREAMER ; DISTANT MIST ; TAPESTRY ; NATIVE MIST ; MIDI MIST ; DOOR
MIST ; DORSAL FIN ; HUPMOBILE ; DIANA MOON ; GUMDROP
TSHO: UNDERGROUND
SUJO: 1-620-000 ; 3-243-000 ; 4-311-000 ; 4-317-000
TEMP: 69986
TITL: RADIATION DAMAGE STUDY PHASE III (RADS III), FINAL REPORT, VOLUME V,
EVALUATION OF PREDICTION TECHNIQUES BY COMPARISON WITH EXPERIMENT
(U), 170 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 10384
AUTH: WELLS M.B. ; MARSHALL J.D.
CLSS: C 3
CCDE: ANISN ; DOT
CORP: RADIATION RESEARCH ASSOCIATES (FORT WORTH-TX)
DATE: 6906
DESC: Radiation Transport neutron L1 SILO
DESC: Radiation Transport gamma L1 SILO
DESC: THEORY
DESC: Cross Sections gamma L1 SILO
DESC: Cross Sections neutron L1 SILO
DESC: Nuclear Weapon Effects structures hard launch sites L1 NEUTRON GAMMA
REPN: RRA T 96
SUJO: 3-116-000 ; 9-620-000 ; 9-650-000 ; 9-820-000 ; 9-830-000
TEMP: 69979
TITL: CALCULATIONS OF THE LEAKAGE INTO MISSILE SILOS EXPOSED TO NUCLEAR
WEAPONS INITIA RADIATION (U), 26 P (C)
TREE: 411 ; 412

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created: 12/27/1991 type: REPORT permanent

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INUM: 10390
ADNO: 507 746
AUTH: HUNTINGTON J.H. ; ROSSMAN R.V.
CLSS: SFRD 1
CONN: F 0 4611 69 C 0062
CORP: PHYSICS INTERNATIONAL COMPANY (SAN LEANDRO-CA)
DATE: 7003
DESC: Simulation Facilities Techniques TREE L5
DESC: Nuclear RDT&E Research Program Descriptions x-ray effects L5
PROPELLANTS
DESC: Simulation Facilities Techniques x-ray effects L5
DESC: Nuclear Weapon Effects ordnance propellants solid L1 MECHANICAL
PROPERTIES
DESC: Nuclear Weapon Effects materials carbon L1 CHLORINE TRIFLUORIDE N204
N2H4 LPC 625A
DESC: SIMULATION (ELECTRON BEAM) X RAY ; SUMMARY
REPN: PIQR 143 4 ; AFRPL TR 70 35
SUJO: 3-164-000 ; 3-248-000 ; 4-130-000 ; 4-231-000 ; 4-272-000
TEMP: 69971
TITL: EFFECTS OF RADIATION ON PROPELLANT SYSTEMS (U), 41 P (SFRD)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10404
ADNO: 857641L
AUTH: PRITCHETT J.W. ; PESTANER J.F.
CLSS: U
CCDE: MACYL-5
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6905
DESC: Nuclear weapon test timing position firing data L9 P1
DESC: Nuclear Weapon Environment Water Shock special studies temperature
gradients L5
DESC: Nuclear weapon test yield L9 P1
DESC: Dynamic Oceanography L5
DESC: Nuclear Weapon Environment Water Shock pressure impulse particle
motion L1
DESC: BUBBLE PULSE ; EXPERIMENTAL THEORY
DESC: Nuclear Weapon Environment Water Shock motion surface waves runup L1
DESC: Nuclear Weapon Environment Water Shock bubbles L1
DESC: Nuclear Weapon Environment Water Shock velocity arrival time
spectrum duration L1
DESC: Fluid Mechanics hydrodynamics L5
REPN: NRDL TR 69 48
SHOT: WIGWAM
TSHO: UW
SUJO: 2-631-000 ; 2-632-000 ; 2-633-000 ; 2-636-000 ; 2-639-000 ;
4-834-000 ; 4-835-000 ; 7-100-000 ; 9-410-000
TTTL: NUMERICAL CALCULATION OF THE WATER FLOW FOLLOWING THE WIGWAM
UNDERWATER EXPLOSION (U), 63 P (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 10421
ADNO: 867776
AUTH: WILEY R.E. ; BARISH F.D.
CLSS: U
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 7001
DESC: TABULAR
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation L1
REPN: AFWL TR 69 144
SUJO: 5-800-000
TTTL: PLOTS OF GEOMAGNETIC FIELD GEOMETRY (U), 134 P (U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 10450
CLSS: SRD
CORP: AIR FORCE WEAPONS LAB. (KIRTLAND AFB, OH)
DATE: 6912
REPN: WLRX 70 306
TTTL: RADIATION EFFECTS, PROCEEDINGS OF A MEETING; VOL. 2 (U), 498 P.,
(SRD)

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copy: 1 id: 44292-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 10450-007
AUTH: VIOLA J.T.
CLSS: S 1
CORP: AIR FORCE WEAPONS LAB (KIRTLAND AFB NM)
DATE: 6912
DESC: Simulation Facilities Techniques x-ray effects L1
DESC: Simulation Facilities Techniques TREE L5
DESC: Nuclear Weapon Effects materials metals alloys L1 X-RAY ALUMINUM
SILICON MULBERRY BERYLLIUM SPALL
DESC: Nuclear Test Simulation Field Programs concepts capability
philosophy L1 ELECTRON BEAM
DESC: equation of state heat of vaporization thermal conductivity opacity
L5
DESC: SIMULATION EXPERIMENTAL ; EXPERIMENTAL
SUJO: 3-243-000 ; 4-231-000 ; 4-272-000 ; 4-810-000 ; 9-710-000
SYMJ: WITH RADIATION EFFECTS PROCEEDINGS
TTTL: DYNAMIC RESPONSE STUDIES USING ELECTRON BEAM DEPOSITION (U), 49 P.,
(S)

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copy: 1 id: 44293-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 10450-051
AUTH: RILEY J.F. ; HARDT A.P. BORGARDT F.G.
CLSS: S 1
CORP: LOCKHEED PALO ALTO RESEARCH LAB (PALO ALTO CA)
DATE: 6912
DESC: Nuclear Weapon Effects materials metals alloys L1 CADMIUM LEAD ZINC

TIN XRAY SPALL

DESC: Simulation Facilities Techniques x-ray effects L5
DESC: SIMULATION EXPERIMENTAL ELECTRON BEAM ; EXPERIMENTAL
SHOT: MILK SHAKE ; HUDSON SEAL
TSHO: UG-CONTAINED
SUJO: 3-243-000 ; 4-231-000
SYMJ: WITH RADIATION EFFECTS PROCEEDINGS
TITL: MATERIALS RESPONSE FRONT SURFACE SPALL STUDIES (U), 53 P., (S)

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created: 12/27/1991 type: REPORT permanent

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INUM: 10450-105
AUTH: KELLER D.V. ; WEINGLER R.E.
CLSS: S 1
CORP: EFFECTS TECHNOLOGY INC. (SANTA BARBARA CA)
DATE: 6912
DESC: EXPERIMENTAL ; EXPERIMENTAL
DESC: blast shock Protection L1
DESC: Simulation Facilities Techniques x-ray effects L1
DESC: Nuclear Weapon Effects materials metals alloys L1 SIMULATION
ALUMINUM XRAY TANTALUM 3244 XRAY SIMULATION PLEXIGLASS RV MATERIALS
SUJO: 3-243-000 ; 4-231-000 ; 9-860-000
SYMJ: WITH RADIATION EFFECTS PROCEEDINGS
TITL: EXPLODING FOIL TECHNOLOGY AND VULNERABILITY ASSESSMENT (U), 55 P.,
(S)

TREE: 642

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10450-161
AUTH: HERRMANN W. ; LAWRENCE R.J.
CLSS: S 1
CORP: SANDIA LABS (ALBUQUERQUE NM)
DATE: 6912
DESC: Nuclear Weapon Effects materials metals alloys L1 ALUMINUM XRAY
SHOCK ATTENUATION
DESC: TABULAR SUMMARY ; THEORY
DESC: blast shock Protection L1 ALUMINUM
SUJO: 3-243-000 ; 9-860-000
SYMJ: WITH RADIATION EFFECTS PROCEEDINGS
TITL: EFFECT OF STRAIN HARDENING AND STRAIN RATE IN ELASTIC-PLASTIC WAVE
PROPAGATION(U), 5 P., (S)

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10450-161
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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 10450-195
AUTH: BORGARDT F.G. ; RILEY J.F. ; HARDT A.P.
CLSS: S 1
CORP: LOCKHEED PALO ALTO RESEARCH LAB (PALO ALTO CA)
DATE: 6912
DESC: SIMULATION ; EXPERIMENTAL
DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses L1

XRAY

DESC: Nuclear Weapon Effects ordnance explosives L1 XRAY
SHOT: MIDI MIST ; HUDSON SEAL
TSHO: UG-CONTAINED
SUJO: 3-162-000 ; 3-163-000
SYMJ: WITH RADIATION EFFECTS PROCEEDINGS
TITL: ELECTRON BEAM INDUCED INITIATION OF EXPLOSIVES (U), 17 P., (S)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 10450-213
AUTH: AVRAMI L. ; KLEIN A. ; SHEA J. ; MAZZELLA A.
CLSS: S 1
CORP: ARMY PICATINNY ARSENAL (DOVER NJ) ; PHYSICS INTERNATIONAL CO (SAN
LEANDRO CA)
DATE: 6912
DESC: Nuclear Weapon Effects ordnance explosives L1 XRAY
DESC: SIMULATION ; EXPERIMENTAL
SUJO: 3-163-000
SYMJ: WITH RADIATION EFFECTS PROCEEDINGS
TITL: TRANSIENT RADIATION VULNERABILITY LEVELS FOR PRIMARY EXPLOSIVES (U),
29 P., (S)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 10450-243

AUTH: KLEIN A. ; SHEA J. ; MAZZELLA A. ; AVRAMI L.
CLSS: S 1
CORP: PHYSICS INTERNATIONAL CO (SAN LEANDRO CA) ; ARMY PICATINNY ARSENAL
(DOVER NJ)
DATE: 6912
DESC: Nuclear Weapon Effects missile systems ABM L1 SPARTAN XRAY
DESC: Nuclear Weapon Effects ordnance explosives L1 XRAY
DESC: SIMULATION ; EXPERIMENTAL
SUJO: 3-112-200 ; 3-163-000
SYMJ: WITH RADIATION EFFECTS PROCEEDINGS
TITL: EFFECTS OF TRANSIENT RADIATION IN EXPLOSIVE-REACTIVE MATERIALS (U),
21 P., (S)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10450-265
AUTH: FRANK B.V. ; COTTON F.F.
CLSS: S 1
CORP: ARMY PICATINNY ARSENAL (DOVER NJ)
DATE: 6912
DESC: SIMULATION ; EXPERIMENTAL
DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses L1
X-RAY NEUTRON GAMMA
SHOT: HUDSON SEAL
TSHO: UG-CONTAINED
SUJO: 3-162-000
SYMJ: WITH RADIATION EFFECTS PROCEEDINGS
TITL: VULNERABILITY TESTING OF ELECTROEXPLOSIVE DEVICES (EEDS) (U), 21 P.,
(S)

TREE: 394

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10450-287
AUTH: LOUGHRAN E.D. ; SMITH L.C.
CLSS: SRD 1
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 6912
DESC: Nuclear Weapon Effects ordnance explosives L1 XRAY
DESC: EXPERIMENTAL
REPN: WLRX 70 306
SHOT: CYPRESS

TSHO: UG CONTAINED
SUJO: 3-163-000
SYMJ: WITH RADIATION EFFECTS PROCEEDINGS
TEMP: 71400
TTTL: RADIATION EFFECTS, VOLUME 2, PROCEEDINGS OF A MEETING (U), 475 P
(SRD)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10450-303
AUTH: ZIRKIND P. ; MITTENDORF A.W.
CLSS: SRD
CORP: PICATINNY ARSENAL (DOVER, NJ) ; UNIDYNAMICS (PHOENIX, AZ)
DATE: 6900
DESC: LASER IGNITION OF EXPLOSIVES ; EXPERIMENTAL SUMMARY
DESC: Simulation Facilities Techniques blast shock high explosives L1
DESC: ignition flammability ablation L1
DESC: Directed Energy Weapons Lasers Effects Explosives Munitions L1
SUJO: 3-613-180 ; 4-216-300 ; 9-730-000
SYMJ: RADIATION EFFECTS, PROCEEDINGS OF A MEETING; VOL. 2
TTTL: LASER INITIATION OF EXPLOSIVES (U), 7 P., (SRD)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10450-313
AUTH: BEALE G.A.
CLSS: S 1
CORP: AIR FORCE ROCKET PROPULSION LAB (EDWARDS CA)
DATE: 6912
DESC: Nuclear Weapon Effects ordnance propellants solid L1 XRAY
DESC: Nuclear Weapon Effects ordnance hardware artillery pieces guns
rocket launchers L1 PROPULSION SYSTEM XRAY
DESC: PROPULSION SYSTEM ; SUMMARY EXPERIMENTAL
DESC: Nuclear Weapon Effects missile systems L1 XRAY
SHOT: MINUTE STEAK
TSHO: UG-CONTAINED
SUJO: 3-112-000 ; 3-164-000 ; 3-169-000
SYMJ: WITH RADIATION EFFECTS PROCEEDINGS
TTTL: AFRPL PROPULSION VULNERABILITY EXPERIMENTS ON UNDERGROUND NUCLEAR
TESTS (U), 42 P., (S)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10450-337
AUTH: WATCHER J.
CLSS: S 1
CORP: MCDONNELL DOUGLAS ASTRONAUTICS CO (SANTA MONICA CA)
DATE: 6912
DESC: Nuclear Weapon Effects missile systems strategic L1 XRAY
DESC: Nuclear Weapon Effects ordnance hardware artillery pieces guns
rocket launchers L1 X-RAY NEUTRON GAMMA BLAST AND SHOCK THERMAL
DESC: PROPULSION SYSTEM ; SURVEY SUMMARY
SUJO: 3-112-100 ; 3-169-000
SYMJ: WITH RADIATION EFFECTS PROCEEDINGS
TITL: NUCLEAR WEAPON EFFECTS ON ROCKET PROPULSION SYSTEMS (U), 41 P., (S)

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copy: 1 id: 44305-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10450-379
AUTH: HUNTINGTON J.H. ; ROSSMAN R.V. ; KLEIN A.F. ; HAMMOND J.A. ;
SZYMANSKI D.R.
CLSS: S 1
CONN: F 04611 69 C 0062
CORP: PHYSICS INTERNATIONAL CO (SAN LEANDRO CA) ; LOCKHEED PROPULSION CO
(REDLANDS CA)
DATE: 6912
DESC: SIMULATION ; EXPERIMENTAL
DESC: Nuclear Weapon Effects ordnance propellants solid L1 XRAY
DESC: Nuclear Weapon Effects materials metals alloys L1 XRAY TITANIUM CASE
LINER
SUJO: 3-164-000 ; 3-243-000
SYMJ: WITH RADIATION EFFECTS PROCEEDINGS
TITL: RADIATION EFFECTS ON SOLID PROPELLANT SYSTEMS, PART I-SOLID
PROPELLANT (U), 39P., (S)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10450-409

AUTH: HUNTINGTON, J.H. ; ROSSMAN R.V. ; KLEIN A.F. ; HAMMOND J.A. ;
SZYMANSKI D.R.
CLSS: S 1
CONN: F 29601 69 C 0049
CORP: PHYSICS INTERNATIONAL CO (SAN LEANDRO CA) ; LOCKHEED PROPULSION CO
(REDLANDS CA)
DATE: 6912
DESC: Nuclear Weapon Effects ordnance propellants solid L1 XRAY
DESC: Nuclear Weapon Effects materials metals alloys L1 X-RAY TITANIUM
CASE LINER
DESC: SIMULATION ; EXPERIMENTAL
SUJO: 3-164-000 ; 3-243-000
SYMJ: WITH RADIATION EFFECTS PROCEEDINGS
TITL: RADIATION EFFECTS ON SOLID PROPELLANT SYSTEMS, PART II-CASE/LINER/
PROPELLANT STRUCTURAL COMPOSITES (U), 11 P., (S)

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created: 12/27/1991 type: REPORT permanent

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INUM: 10450-421
AUTH: DUNHAM R.S.
CLSS: S 1
CORP: ARMY MISSILE COMMAND (REDSTONE ARSENAL ALA)
DATE: 6912
DESC: CASE-PROPELLANT INTERFACE ; EXPERIMENTAL THEORY
DESC: Nuclear Weapon Effects ordnance propellants solid L1 XRAY
SUJO: 3-164-000
SYMJ: WITH RADIATION EFFECTS PROCEEDINGS
TITL: STRESS WAVES IN PROPELLANT GRAIN-CASE SYSTEMS DURING THE NUCLEAR
EVENT (U), 41P., (S)

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created: 12/27/1991 type: REPORT permanent

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INUM: 10450-463
AUTH: THOMAS W.B.
CLSS: S 1
CORP: ARMY MISSILE COMMAND (REDSTONE ARSENAL ALA)
DATE: 6912
DESC: Nuclear Weapon Effects ordnance propellants solid L1 XRAY
DESC: Nuclear Weapon Effects missile systems L1 XRAY SIMULATION
DESC: SIMULATION ; EXPERIMENTAL
SHOT: HUDSON SEAL
TSHO: UG-CONTAINED

SUJO: 3-112-000 ; 3-164-000
SYMJ: WITH RADIATION EFFECTS PROCEEDINGS
TITL: NUCLEAR VULNERABILITY OF PROPULSION SYSTEMS (U), 12 P., (S)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10456
AUTH: LUTOMIRSKI R.F.
CLSS: U
CONN: DAHC 15 67 C 0141
CORP: RAND CORPORATION (SANTA MONICA-CA)
DATE: 7004
DESC: Radiation Transport visible L1 ATMOSPHERIC TURBULANCE REFRACTION
INDICES SECONDARY WAVEFRONT MODULATION TRANSFER FUNCTION KOLMOGOROV
SPECTRUM SPHERICAL WAVES
DESC: THEORY
REPN: ARPA ORDER NO. 189-1 ; RM 6055 ARPA
SUJO: 9-630-000
TITL: PROPAGATION OF A FINITE OPTICAL BEAM IN AN INHOMOGENEOUS MEDIUM (U),
35 P (U)

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copy: 1 id: 44313-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10457
AUTH: DICKENS J.K. ; BAYBARAZ R.D.
CLSS: U
CORP: OAK RIDGE NATIONAL LABORATORY (OAK RIDGE-TN)
DATE: 7004
DESC: NEWSLETTER
DESC: test instruments nuclear radiation gamma L1 CALIBRATION
REPN: ORNL TM 2958
SUJO: 4-341-000
TITL: MONOENERGETIC 6130-KEV GAMMA-RAY SOURCE FOR DETECTOR CALIBRATION
(U), 10 P (U)

TREE: 651

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copy: 1 id: 44314-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10472
ADNO: 868914L
AUTH: BUTCHER D.T. ; BELL J.E.
CLSS: U
CONN: DAAH01 69 C 1784
CORP: AUTONETICS DIVISION OF NORTH AMERICAN ROCKWELL INC (ANAHEIM-CA)
DATE: 7004
DESC: Nuclear Weapon Effects electronic subsystems computers memory L1
TREE NEUTRON GAMMA
DESC: THEORY
REPN: RG TR 70 5 ; C 70 173 501
SUJO: 3-212-000
TITL: DESIGN STUDY OF A RADIATION HARDENED DIGITAL DIFFERENTIAL ANALYZER
(DDA), FINAL REPORT (U), 66 P, (U)
TREE: 341

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copy: 1 id: 44323-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10475
AUTH: JOURET J.A.
CLSS: U
CCDE: BMD03S
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AFB-NM)
DATE: 7003
DESC: Mathematics L1 STATISTICAL ANALYSIS
DESC: Nuclear Weapon Effects on animals ionizing radiation L1 LETHAL DOSE
DESC: CODE
REPN: WL04 TN 70 1
SUJO: 3-312-000 ; 9-990-000
TITL: COMPUTER CODE FOR STATISTICAL ANALYSIS OF RADIATION DATA (U), 32 P,
(U)

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copy: 1 id: 44326-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10486
AUTH: MAERKER R.E. ; MUCHENTHALER F.J.
CLSS: U
CCDE: ANISN
CONN: W 7405 ENG 26
CORP: OAK RIDGE NATIONAL LABORATORY (OAK RIDGE-TN)

DATE: 7004
DESC: Nuclear Weapon Environment Ground Shock heating thermoluminescence
transitions L9
DESC: Nuclear Weapon Effects materials metals alloys L1 FE AL CU TI ZN CA
K SI CD S NI BA NA STAINLESS STEEL
DESC: Nuclear Weapon Effects materials concrete L1
DESC: Cross Sections gamma L5
DESC: Cross Sections neutron L5
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L1 SOILS CONCRETE STRUCTURES
DESC: DELAYED GAMMAS/FAST NEUTRON INTERACTION ; DATA EXPERIMENTAL THEORY
DESC: Radiation Transport neutron L1
REPN: ORNL 4475 ; UC 40
SUJO: 2-629-000 ; 3-243-000 ; 3-247-000 ; 4-170-000 ; 9-650-000 ;
9-820-000 ; 9-830-000
TITL: GAMMA RAY SPECTRA ARISING FROM FAST NEUTRON INTERACTIONS IN ELEMENTS
FOUND IN SOILS, CONCRETES, AND STRUCTURAL MATERIALS (U), 234 P, (U)
TREE: 411 ; 412

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copy: 1 id: 44334-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10490
ADNO: 508541L
AUTH: ROSEN S.L.
CLSS: SRD 1
CONN: FO4701 68 C 0035
CORP: AVCO GOVERNMENT PRODUCTS GROUP (WILMINGTON-MA)
DATE: 6904
DESC: Nuclear Weapon Effects materials plastics resins L1 AVCOA + II TW SP
3DQP SHOCK FAILURE CRITERIA TIME AT TEMPERATURE PROPERTY EFFECTS
DESC: SIMULATION (FLYER PLATE) X RAY LOADING ; EXPERIMENTAL DATA
PHOTOGRAPHS
REPN: AVSD 0094 69 RR ; SAMSO TR 158
SUJO: 3-244-000
TEMP: 71356
TITL: RADIATION DAMAGE STUDY PHASE III (RADS III), FINAL REPORT, VOL III,
SHOCK DAMAGE EFFECTS IN ADVANCED REENTRY VEHICLE HEAT SHIELD
MATERIALS (U), 190 P,(SRD)

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copy: 1 id: 44335-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10492-029

AUTH: EICHWALD L.G.
CLSS: U
CORP: VULNERABILITY ANALYSIS DIRECTORATE (KIRTLAND AFB-NM)
DATE: 7003
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
NUCLEAR RADIATION PERMANENT DAMAGE
DESC: THEORY
EMPF: 330 ; 323
SUJO: 3-213-000
SYMJ: INSTRUMENTATION FOR NUCLEAR WEAPON EFFECTS SIMULATION SYMPOSIUM,
VOLUME 1, ELECTROMAGNETIC PULSE, MARCH 1970
TITL: CIRCUIT MODELING, PART I, APPLICATION OF THE DRIVING POINT IMPEDANCE
CIRCUIT ANALYSIS TECHNIQUE IN VULNERABILITY ASSESSMENT OF AUDIO
AMPLIFIER (U), 16 P (U)

TREE: 330

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10492-029

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copy: 1 id: 44340-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10493-265

AUTH: SPATARO S.

CLSS: U

CORP: LAWRENCE RADIATION LAB (LIVERMORE-CA)

DATE: 7003

DESC: test instruments test hardware velocity measurement

DESC: test instruments test hardware acceleration measurement L1

SUJO: 4-314-000 ; 4-315-000

SYMJ: CONTAINED IN INSTRUMENTATION FOR NUCLEAR WEAPON EFFECTS SIMULATION
SYMPOSIUM, VOLUME 2, SHOCK EFFECTS, MARCH 1970

TITL: FM ACCELERATION/VELOCITY MEASUREMENT SYSTEM (U), 33 P (U)

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copy: 1 id: 44375-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10494

ADNO: 872960L

AUTH: FERNANDEZ H.M.

CLSS: U

CORP: AIR FORCE/SPECIAL WEAPONS CENTER (KIRTLAND AFB-NM)

DATE: 7003

EMPF: 830

REPN: AFSWC TR 70 5 VOL 3

TITL: INSTRUMENTATION FOR NUCLEAR WEAPON EFFECTS SIMULATION 32, P (U)
SYMPOSIUM, VOLUME III, TRANSIENT RADIATION EFFECTS ON ELECTRONIC

SYSTEMS (U), 328 P (U)

TREE: 642 ; 650

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copy: 1 id: 44382-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10494-001

AUTH: GALLOWAY R.N.

CLSS: U

CORP: GULF GENERAL ATOMIC INC (SAN DIEGO CA)

DATE: 7003

DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L1

DESC: test instruments nuclear radiation L1

DESC: SUMMARY

SUJO: 4-170-000 ; 4-340-000

SYMJ: WITH INSTRUMENTATION FOR NUCLEAR WEAPON EFFECTS SIMULATION
SYMPOSIUM, VOL. 3

TITL: NUCLEAR EVENT TEST INSTRUMENTATION (U), 12 P., (U)

TREE: 641

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copy: 1 id: 44383-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10494-065

AUTH: ANDREWS J.L. ; TARKA J.E.

CLSS: U

CORP: GENERAL ELECTRIC CO-SPACE DIV (PHILADELPHIA PA)

DATE: 7003

DESC: Simulation Facilities Techniques TREE L1

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1

TREE SIMULATION

SUJO: 3-222-000 ; 4-272-000

SYMJ: WITH INSTRUMENTATION FOR NUCLEAR WEAPON EFFECTS SIMULATION
SYMPOSIUM, VOL. 3

TITL: RECENT DEVELOPMENTS IN TRANSIENT RADIATION EFFECTS TESTING UTILIZING
PULSED ELECTRON BEAMS (U), 31 P., (U)

TREE: 642

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 10494-141
AUTH: NOTTHOFF J.K.
CLSS: U
CONN: F 29601-67-C-0083
CORP: MCDONNELL DOUGLAS ASTRONAUTICS CO-WEST (SANTA MONICA CA)
DATE: 7003
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
TREE SIMULATION
SUJO: 3-213-000
SYMJ: WITH INSTRUMENTATION FOR NUCLEAR WEAPON EFFECTS SIMULATION
SYMPOSIUM, VOL. 3
TITL: RADIATION-HARDENED INTERFACING AMPLIFIER (U), 25 P., (U)
TREE: 369

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copy: 1 id: 44389-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 10494-181
AUTH: ANDERSON W.D. ; GLASS C.M.
CLSS: U
CCDE: SCEPTRE
CORP: USAF ACADEMY (COLORADO SPRINGS CO)
DATE: 7003
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers TREE SIMULATION
DESC: THEORY TABULAR
SUJO: 3-221-000
SYMJ: WITH INSTRUMENTATION FOR NUCLEAR WEAPON EFFECTS SIMULATION
SYMPOSIUM, VOL. 3
TITL: SEPARATION TECHNIQUE APPLIED TO SIMULATION OF RADIATION EFFECTS ON
SEMI-CONDUCTORS (U), 25 P., (U)
TREE: 310

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copy: 1 id: 44391-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 10494-207
AUTH: FRIDDEL K.D. ; HANSEN M. ; KENNEDY R.C.
CLSS: U

CCDE: SENDEP
CORP: BOEING CO-RADIATION EFFECTS LAB (SEATTLE WASH)
DATE: 7003
DESC: test instruments x-ray effects L1 FOILS UNFOLDING
DESC: THEORY TABULAR
SUJO: 4-330-000
SYMJ: WITH INSTRUMENTATION FOR NUCLEAR WEAPON EFFECTS SIMULATION
SYMPOSIUM, VOL. 3
TITL: ESTIMATION OF X-RAY ENERGY SPECTRA FROM ENERGY DEPOSITION IN METAL
FOILS (U), 18 P., (U)
TREE: 653

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copy: 1 id: 44392-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10494-227
AUTH: ADAMSKI J.L. ; LOWREY A.R. ; SCHULTZ E.A.
CLSS: U
CORP: BOEING CO-RADIATION EFFECTS LAB (SEATTLE WASH)
DATE: 7003
DESC: EXPERIMENTAL
DESC: test instruments x-ray effects L1 FOILS
SUJO: 4-330-000
SYMJ: WITH INSTRUMENTATION FOR NUCLEAR WEAPON EFFECTS SIMULATION
SYMPOSIUM, VOL. 3
TITL: MULTIPLE-FOIL CALORIMETERS FOR X-RAY ENERGY DEPOSITION PROFILES (U),
21 P., (U)
TREE: 653

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copy: 1 id: 44393-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10494-311
AUTH: PARKER R.
CLSS: U
CORP: UNIVERSITY OF CALIFORNIA, LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7003
DESC: test instruments electronic vulnerability EMP L1
DESC: EXPERIMENTAL
EMPF: 830
SUJO: 4-371-000
SYMJ: INSTRUMENTATION FOR NUCLEAR WEAPON EFFECTS SIMULATION SYMPOSIUM,
VOL. 3
TITL: PASSIVE ACTIVE ENERGY MEASUREMENT METHOD (U), 10 P., (U)

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INUM: 10498

AUTH: DURKEE R.K.

CLSS: U

CONN: DAAG 39 68 C 0053

CORP: ARMY/MATERIEL COMMAND (WASHINGTON-DC)

DATE: 7003

DESC: test instruments nuclear radiation L1 PHOTODIODES PHOTOMULTIPLIER

LIQUID SCINTILLATOR SOLID SCINTILLATOR MODULE COMPONENTS-

DESC: SUMMARY

REPN: S 466 R

SUJO: 4-340-000

TITL: DESIGN AND TEST OF A MODULAR SCINTILLATION DETECTOR SYSTEM (U), 52 P

(U)

TREE: 650

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10508

AUTH: HALBLEIB J.A.

CLSS: U

CCDE: SPECTRA ; LIMIT ; REPETE

CORP: SANDIA LABORATORIES (ALBUQUERQUE-NM)

DATE: 7004

DESC: Radiation Transport neutron L1 SPECTRAL UNFOLDING FREDHOLM INTEGRAL

LAGRANGIAN MULTIPLIERS LEAST SQUARES INVERSE TECHNIQUES

DESC: THEORY CODE

REPN: SC RR 70 251

SUJO: 9-650-000

TITL: THEORY AND APPLICATION OF THE GENERALIZED SPECTRA CODE (U), 29 P (U)

TREE: 652

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10515
ADNO: 703856
AUTH: MALONEY J.C. ; MILLER A.S.
CLSS: U
CORP: ARMY/BALLISTIC RESEARCH LABORATORIES (ABERDEEN PROVING GROUND-MD)
DATE: 7002
DESC: EXPERIMENTAL
DESC: Civil Defense shelters L1
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L5
WITHIN HOUSES
REPN: BRL 1476 ; BRL R 1476
SUJO: 3-312-100 ; 3-474-000
TITL: FALLOUT MIGRATION FROM A SLOPED ROOF (U), 25 P (U)

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copy: 1 id: 44429-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10519
ADNO: 509047L
AUTH: ROSSMAN R.V. ; HUNTINGTON J.H.
CLSS: SFRD 1
CONN: F 04611 69 C 0062
CORP: PHYSICS INTERNATIONAL COMPANY (SAN LEANDRO-CA)
DATE: 7005
DESC: SIMULATION (LINAR) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects ordnance propellants solid L1 X-RAYS
REPN: PIQR 143 5 ; AFRPL TR 70 67 ; MAY 1970
SHOT: DIESEL TRAIN
SUJO: 3-164-000
TEMP: 71486
TITL: EFFECTS OF RADIATION ON PROPELLANT SYSTEMS (U), 13 P (SFRD)

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10519

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copy: 1 id: 44433-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10535
AUTH: DUDZIAK W.F.
CLSS: U
CCDE: RADSAFE
CONN: DASA 01 69 C 0145
CORP: INFORMATION SCIENCE, INCORPORATED (SANTA BARBARA-CA)
DATE: 7002
REPN: RM 69 ISI 4
TITL: OPERATION INSTRUCTIONS-USQ 20 B VERSION OF THE RADSAFE RADIATION

EXPOSURE ACCOUNTING COMPUTER PROGRAM (U), 32 P., (U)

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copy: 1 id: 44444-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 10536

AUTH: DEVAN D.I.

CLSS: U

CCDE: RADFIN

CONN: DASA 01 69 C 0145

CORP: INFORMATION SCIENCE, INCORPORATED (SANTA BARBARA-CA)

DATE: 7002

REPN: RM 69 ISI 5

TITL: OPERATION INSTRUCTIONS; USQ 20 B VERSION OF THE RADFIN RADIATION
EXPOSURE SUMMAR PROGRAM (U), 22 P (U)

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copy: 1 id: 44445-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 10543

AUTH: STRAKER E.A.

CLSS: U

CCDE: OGRE ; ACTIFK ; ANISN ; DOT

CORP: OAK RIDGE NATIONAL LABORATORY (OAK RIDGE-TN)

DATE: 7005

DESC: CODE CALCULATIONS

DESC: Radiation Transport gamma L1

DESC: Radiation Transport neutron L1

REPN: ORNL TM 2781

SUJO: 9-620-000 ; 9-650-000

TITL: TIME-DEPENDENT NEUTRON AND SECONDARY GAMMA-RAY TRANSPORT IN INFINITE
AIR AND IN AIR OVER GROUND (U), 43 P (U)

TREE: 960 ; 970

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10543

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copy: 1 id: 44452-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 10544

AUTH: IRVING D.C.

CLSS: U
CORP: OAK RIDGE NATIONAL LABORATORY (OAK RIDGE-TN)
DATE: 7005
DESC: THEORY
DESC: Radiation Transport neutron L1
REPN: ORNL TM 2879
SUJO: 9-650-000
TITL: ADJOINT BOLTZMANN EQUATION AND ITS SIMULATION BY MONTE CARLO (U), 34
P (U)
TREE: 970

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copy: 1 id: 44453-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 10561
AUTH: TAYLOR J.R.
CLSS: SRD 1
CONN: F 04701 68 C 0035
CORP: AVCO GOVERNMENT PRODUCTS GROUP (WILMINGTON-MA)
DATE: 6903
DESC: SIMULATION (HI-ALT) ; SUMMARY
DESC: Nuclear Weapon Environment Ground Shock velocity arrival time
spectrum duration L5 DOOR MIST DORSAL FIN CLOSE IN
DESC: Nuclear RDT&E Research Program Descriptions integrated effects
system studies L1
DESC: Nuclear Weapon Effects reentry systems RV L5 ADVANCED HARDENING
SCHEMES
DESC: test instruments test hardware pressure stress L1
REPN: AVSD 0094 69 RR VOL 8 ; SAMS TR 69 158 VOL 8
TSHO: UG
SUJO: 2-622-000 ; 3-113-000 ; 4-160-000 ; 4-311-000
TEMP: 71550
TITL: RADIATION DAMAGE STUDY PHASE III (RADS III), FINAL REPORT, VOLUME
VIII, UNDERGROUND TEST RECOMMENDATIONS (U), 72 P (SRD)

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10561

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copy: 1 id: 44464-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 10567
AUTH: SHORE B. ; HATCH F.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6912
REPN: AEC 16 SERIES

SYMJ: PROCEEDINGS OF A SYMPOSIUM HELD AT LAWRENCE RADIATION LABORATORY,
LIVERMORE,CALIFORNIA, MARCH 5-7, 1969

TITL: BIOLOGICAL IMPLICATIONS OF THE NUCLEAR AGE (U), 328 P (U)

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10567

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copy: 1 id: 44465-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 10567P31

AUTH: WERTH G.C.

CLSS: U

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)

DATE: 6912

DESC: SUMPOSIUM

DESC: Nuclear Energy Peaceful Applications L1

SUJO: 3-480-000

SYMJ: CONTAINED IN BIOLOGICAL EMPLICATIONS OF THE NUCLEAR AGE, PROCEEDINGS
OF SYMPOSIUM HELD MARCH 5-7, 1969, LAWRENCE RADIATION LABORATORY,
LIVERMORE, CA

TITL: PLANNED APPLICATIONS OF PEACEFUL NUCLEAR EXPLOSIVES (U), 31 P, (U)

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10567P31

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copy: 1 id: 44478-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 10567P75

AUTH: TAMPLIN A.R.

CLSS: U

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)

DATE: 6912

DESC: SYMPOSIUM THEORY

DESC: Nuclear Weapon Effects on animals ionizing radiation L1 ESTIMATED
INTERNAL DOSE MAN CONTAMINATEDWATER

DESC: Nuclear Weapon Effects ecological L1 WATER CONTAMINATION

SUJO: 3-312-000 ; 3-341-000

SYMJ: CONTAINED IN BIOLOGICAL IMPLICATIONS OF THE NUCLEAR AGE, PROCEEDINGS
OF SYMPOSIUM HELD MARCH 5-7, 1969, LAWRENCE RADIATION LABORATORY,
LIVERMORE, CA

TITL: ESTIMATION OF THE MAXIMUM DOSE TO MAN FROM THE CONTAMINATION OF AN
AQUATIC ECOSYSTEM WITH RADIONUCLIDES (U), 20 P, (U)

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10567P75

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copy: 1 id: 44480-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 10567P95
AUTH: NG Y.C.
CLSS: U
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 6912
DESC: SYMPOSIUM THEORY
DESC: Nuclear Warfare Postattack Recovery resources agriculture food
supply L1
DESC: Nuclear Weapon Effects on animals ionizing radiation L1 ESTIMATED
INTERNAL DOSE MAN AGRICULTURALLAND
SUJO: 3-312-000 ; 3-448-100
SYMJ: CONTAINED IN BIOLOGICAL IMPLICATIONS OF THE NUCLEAR AGE, PROCEEDINGS
OF SYMPOSIUM HELD MARCH 5-7, 1969, LAWRENCE RADIATION LABORATORY,
LIVERMORE, CA
TITL: ESTIMATION OF THE MAXIMUM DOSE TO MAN FROM THE FALLOUT OF
RADIONUCLIDES ON AGRICULTURAL LAND (U), 30 P, (U)

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10567P95
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copy: 1 id: 44481-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 10567P125
AUTH: HOLLAND J. Z.
CLSS: U
CORP: ATOMIC ENERGY COMMISSION (WASHINGTON-DC)
DATE: 6912
DESC: SYMPOSIUM
DESC: Nuclear Warfare Postattack Recovery resources air quality L1
SUJO: 3-448-300
SYMJ: CONTAINED IN BIOLOGICAL IMPLICATIONS OF THE NUCLEAR AGE, PROCEEDINGS
OF SYMPOSIUM HELD MARCH 5-7, 1969, LAWRENCE RADIATION LABORATORY,
LIVERMORE, CA
TITL: RADIOACTIVE POLLUTION OF THE ATMOSPHERE (U), 8 P, (U)

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10567P125
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copy: 1 id: 44466-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 10567P133
AUTH: JUNKINS R.L.
CLSS: U
CORP: BATTELLE MEMORIAL INSTITUTE (RICHLAND-WA)
DATE: 6912

DESC: SYMPOSIUM
DESC: Nuclear Weapon Effects ecological L1 RADIOACTIVE WATER POLLUTION
SUJO: 3-341-000
SYMJ: CONTAINED IN BIOLOGICAL EMLICATIONS OF THE NUCLEAR AGE, PROCEEDINGS
OF SYMPOSIUM HELD MARCH 5-7, 1969, LAWRENCE RADIATION LABORATORY,
LIVERMORE, CA

TITL: REACTOR RELEASES OF RADIONUCLIDES (U), 11 P, (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10567P145

AUTH: DUNSTER H.J.

CLSS: U

CORP: UNITED KINGDOM ATOMIC ENERGY AUTHORITY (HARWELL DIDCOT
BERKS-ENGLAND)

DATE: 6912

DESC: SYMPOSIUM

DESC: Nuclear Weapon Effects ecological L1 DISCHARGE WATER

LA: UK

SUJO: 3-341-000

SYMJ: CONTAINED IN BIOLOGICAL IMPLICATIONS OF THE NUCLEAR AGE, PROCEEDINGS
OF SYMPOSIUM HELD MARCH 5-7, 1969, LAWRENCE RADIATION LABORATORY,
LIVERMORE, CA

TITL: UNITED KINGDOM STUDIES ON RADIOACTIVE MATERIALS RELEASED IN THE
MARINE ENVIRONMENT (U), 12 P, (U)

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10567P145

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copy: 1 id: 44468-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10567P159

AUTH: KORANDA J.J. ; MARTIN J.R.

CLSS: U

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)

DATE: 6912

DESC: SYMPOSIUM

DESC: Nuclear Warfare Postattack Recovery resources soil quality L1

SUJO: 3-448-400

SYMJ: CONTAINED IN BIOLOGICAL IMPLICATIONS OF THE NUCLEAR AGE, PROCEEDINGS
OF SYMPOSIUM HELD MARCH 5-7, 1969, LAWRENCE RADIATION LABORATORY,
LIVERMORE, CA

TITL: PERSISTENCE OF RADIONUCLIDES AT SITES OF NUCLEAR DETONATIONS (U), 29
P, (U)

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10567P159

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10567P189

AUTH: HARLEY J.H.

CLSS: U

CORP: U. S. ATOMIC ENERGY COMMISSION (NEW YORK-NY)

DATE: 6912

DESC: Nuclear Warfare Postattack Recovery resources agriculture food
supply L1

DESC: SYMPOSIUM

SUJO: 3-448-100

SYMJ: CONTAINED IN BIOLOGICAL IMPLICATIONS OF THE NUCLEAR AGE, PROCEEDINGS
OF SYMPOSIUM HELD MARCH 5-7, 1969, LAWRENCE RADIATION LABORATORY,
LIVERMORE, CA

TITL: RADIONUCLIDES IN FOOD (U), 12 P, (U)

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10567P189

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copy: 1 id: 44470-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10567P201

AUTH: COMAR C.L. ; THOMPSON J.C. JR.

CLSS: U

CORP: CORNELL UNIVERSITY (ITHACA-NY)

DATE: 6912

DESC: SYMPOSIUM

DESC: Nuclear Warfare Postattack Recovery resources L1

SUJO: 3-448-000

SYMJ: CONTAINED IN BIOLOGICAL IMPLICATIONS OF THE NUCLEAR AGE, PORCEEDINGS
OF SYMPOSIUM HELD MARCH 5-7, 1969, LAWRENCE RADIATION LABORATORY,
LIVERMORE, CA

TITL: STATUS OF REMEDIAL MEASURES AGAINST ENVIRONMENTAL
RADIOCONTAMINATION, 19 P, (U)

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10567P201

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copy: 1 id: 44471-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10567P223

AUTH: NELSON N.

CLSS: U
CORP: NEW YORK UNIVERSITY MEDICAL CENTER (NEW YORK CITY-NY)
DATE: 6912
DESC: Nuclear Weapon Effects ecological L1 BIOLOGICAL EFFECTS
DESC: SYMPOSIUM
SUJO: 3-346-000
SYMJ: CONTAINED IN BIOLOGICAL EMPLICATIONS OF THE NUCLEAR AGE, PROCEEDINGS
OF SYMPOSIUM HELD MARCH 5-7, 1969, LAWRENCE RADIATION LABORATORY,
LIVERMORE, CA
TITL: BIOLOGICAL EFFECTS OF RADIATION IN RELATION TO OTHER ENVIRONMENTAL
AGENTS (U),8 P, (U)

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10567P223

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copy: 1 id: 44472-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 10567P231
AUTH: BUSTAD L.K.
CLSS: U
CORP: UNIVERSITY OF CALIFORNIA (DAVIS-CA)
DATE: 6912
DESC: SYMPOSIUM
DESC: Nuclear Weapon Effects ecological L1 SR 90 RA 226 BONE TUMORS
BEAGLES
SUJO: 3-346-000
SYMJ: CONTAINED IN BIOLOGICAL EMPLICATIONS OF THE NUCLEAR AGE ,
PROCEEDINGS OF SYMPOSIUM HELD MARCH 5-7, 1969, LAWRENCE RADIATION
LABORATORY, LIVERMORE, CA
TITL: EFFECTS OF SINGLE OR FRACTIONATED X IRRADIATION AND OF BONE SEEKING
RADIONUCLIDES ON MAMMALS: A REVIEW (U), 23 P, (U)

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10567P231

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copy: 1 id: 44473-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 10567P255
AUTH: RUSSELL W.L.
CLSS: U
CORP: OAK RIDGE LABORATORY (OAK RIDGE-TN)
DATE: 6912
DESC: Nuclear Weapon Effects ecological L1 MUTATIONS IN MICE
DESC: SYMPOSIUM
SUJO: 3-346-000
SYMJ: CONTAINED IN BIOLOGICAL EMPLICATIONS OF THE NUCLEAR AGE, PROCEEDINGS
OF SYMPOSIUM HELD MARCH 5-7, 1969, LAWRENCE RADIATION LABORATORY,
LIVERMORE, CA

TITL: FACTORS AFFECTING THE RADIATION INDUCTION OF MUTATIONS IN THE MOUSE
(U), 13 P,(U)

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10567P255

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copy: 1 id: 44474-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 10567P269

AUTH: GRAHN D.

CLSS: U

CORP: ARGONNE NATIONAL LABORATORY (ARGONNE-IL)

DATE: 6912

DESC: SYMPOSIUM

DESC: Nuclear Weapon Effects ecological L1 LIFE SHORTENING EFFECTS

SUJO: 3-346-000

SYMJ: CONTAINED IN BIOLOGICAL EMPLICATIONS OF THE NUCLEAR AGE, PROCEEDINGS
OF SYMPOSIUM HELD MARCH 5-7, 1969, LAWRENCE RADIATION LABORATORY,
LIVERMORE, CA

TITL: LATE EFFECTS OF EXTERNAL IRRADIATIONS IN ANIMALS AND THE PREDICTION
OF LOW DOSE EFFECTS (U), 13 P, (U)

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10567P269

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copy: 1 id: 44475-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10567P283

AUTH: CLEAVER J.E.

CLSS: U

CORP: UNIVERSITY OF CALIFORNIA MEDICAL CENTER (SAN FRANCISCO-CA)

DATE: 6912

DESC: Nuclear Weapon Effects ecological L1 RADIATION REPAIR MECHANISMS

DESC: SYMPOSIUM

SUJO: 3-346-000

SYMJ: CONTAINED IN BIOLOGICAL EMPLICATIONS OF THE NUCLEAR AGE, PROCEEDINGS
OF SYMPOSIUM HELD MARCH 5-7, 1969, LAWRENCE RADIATION LABORATORY,
LIVERMORE, CA

TITL: RADIATION REPAIR MECHANISMS IN MAMMALIAN CELLS (U), 23 P, (U)

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copy: 1 id: 44476-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 10567P307
AUTH: MILLER R.W.
CLSS: U
CORP: NATIONAL CANCER INSTITUTE (BETHESDA-MD)
DATE: 6912
DESC: Nuclear Warfare Postattack Recovery civilians population L1
DESC: SYMPOSIUM
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1
SUJO: 3-312-200 ; 3-442-000
SYMJ: CONTAINED IN BIOLOGICAL EMPLICATIONS OF THE NUCLEAR AGE, PROCEEDINGS
OF SYMPOSIUM HELD MARCH 5-7, 1969, LAWRENCE RADIATION LABORATORY,
LIVERMORE, CA
TITL: DELAYED RADIATION EFFECTS AMONG JAPANESE BURVIVORS OF THE ATOMIC
BOMBS (U), 11P, (U)

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copy: 1 id: 44477-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10567P319
AUTH: KAPLAN H.S.
CLSS: U
CORP: STANFORD UNIVERSITY MEDICAL CENTER (STANFORD-CA)
DATE: 6912
DESC: Nuclear Weapon Effects ecological L1 LEUKEMIA VIRUSES
DESC: SYMPOSIUM
SUJO: 3-346-000
SYMJ: CONTAINED IN BIOLOGICAL EMPLICATIONS OF THE NUCLEAR AGE, PROCEEDINGS
OF SYMPOSIUM HELD MARCH 5-7, 1969, LAWRENCE RADIATION LABORATORY,
LIVERMORE, CA
TITL: RADIATION AND VIRUS INTERACTIONS IN LEUKEMOGENESIS (U), 8 P, (U)

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copy: 1 id: 44479-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10574
AUTH: STEHLIN R.A.
CLSS: SRD 1
CONN: F 30602 69 C 0270
CORP: TEXAS INSTRUMENTS, INCORPORATED (DALLAS-TX)
DATE: 7005
DESC: test instruments hardened instruments L1
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L5 X RAY NEUTRONS
DESC: Nuclear Weapon Effects electronic pieceparts L5 X RAY NEUTRONS

REPN: 03 70 01 (S) ; RADC TR 70 67
SUJO: 3-220-000 ; 3-221-000 ; 4-360-000
TEMP: 71723
TITL: HARDENED AMPLIFIER FOR RADIATION TRANSIENTS (HART), PHASE I (U), 240
P (SRD)

TREE: 650

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10574

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copy: 1 id: 44485-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 10583

AUTH: KNOX J.B. ; TEWES H.A. ; CRAWFORD T.V. ; GIBSON T.A.

CLSS: U

CCDE: BARNCAL, NOVA, ACT, WATUSI, ACTIVE, TENSOR, KFOC, GROUNDHOG, GEM

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)

DATE: 7002

DESC: Nuclear Weapon Environment fallout Deposition L1

DESC: Nuclear Weapon Phenomenology cloud Motion L1

DESC: FALLOUT ; THEORY CALCULATIONS

DESC: Nuclear Weapon Environment Fallout Particles size distribution L5

REPN: UCRL 50230 REV. 1

SHOT: DANNY BOY ; SEDAN ; NEPTUNE ; APPLE II ; ZUCCHINI ; SULKY

TSHO: SURFACE ; UG-VENTED ; LOW-ALT

SUJO: 2-222-300 ; 2-224-000 ; 2-225-000

TITL: RADIOACTIVITY RELEASED FROM UNDERGROUND NUCLEAR DETONATIONS: SOURCE,
TRANSPORT, DIFFUSION, AND DEPOSITION (U), 111 P (U)

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10583

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copy: 1 id: 44489-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10587

ADNO: 509602

CLSS: CRD

CORP: ARMY/INSTITUTE OF NUCLEAR STUDIES (FT BLISS-TX)

DATE: 7006

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L5

SUMMER UNIFORMS EXPOSED PERSONNEL PROTECTED PERSONNEL

DESC: Nuclear Weapon Effects land transport armored vehicles L5

DESC: Nuclear Weapon Effects materials plastics resins L5 NEOPRENE

DESC: RADIATION BLAST OVERPRESSURE THERMAL EMP ; SUMMARY THEORY

DESC: Nuclear Weapon Effects land transport unhardened vehicles L5

DESC: Nuclear Weapon Effects materials metals alloys L5 ALUMINUM STEEL

DESC: Nuclear Weapon Effects electronic subsystems L5

REPN: TR 2 70

SUJO: 3-151-000 ; 3-152-000 ; 3-210-000 ; 3-243-000 ; 3-244-000 ;
3-312-100

TEMP: 71733

TITL: CRITERIA FOR HARDENING EQUIPMENT AGAINST NUCLEAR WEAPONS EFFECTS
(U), CIRCA 100, (CRD)

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copy: 1 id: 44493-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10592

AUTH: DOLINSKY A.A.

CLSS: SRD 1

CONN: AF 04 701 68 C 0035

CORP: AVCO SYSTEMS AND APPLIED TECHNOLOGY DIVISION (WILMINGTON-MA)

DATE: 6903

DESC: Nuclear Weapon Effects materials metals alloys L1 AL 6061-T6

DESC: Nuclear Weapon Effects materials ceramics optical L1 FUSED SILICA

DESC: Nuclear Weapon Effects materials plastics resins L1 AVCOAT II TWSP

EPOXYLITE 5403

DESC: RADS III UNCERTAINTY ANALYSES MATERIAL PARAMETERS ; THEORY
EXPERIMENTAL

DESC: Nuclear Weapon Effects materials composites L1 TWSP EPOXYLITE AL

REPN: AVMXD 0094 69 RR V6 BOOK 1

SUJO: 3-241-000 ; 3-243-000 ; 3-244-000 ; 3-249-000

TEMP: 71742

TITL: RADIATION DAMAGE STUDY PHASE III (RADSIID), FINAL REPORT, VOLUME 6
UNCERTAINTIES IN CRITICAL MATERIAL PROPERTIES AND THEIR EFFECTS ON V
AND H PREDICTIONS BOOK ONE OF TWO BOOKS (U), 122 P, (SRD)

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copy: 1 id: 44497-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10627

AUTH: RITTS J.J. ; SOLOMITO M. ; STEVENS P.N.

CLSS: U

CCDE: ANISN

CORP: OAK RIDGE NATIONAL LABORATORY

DATE: 7005

DESC: Cross Sections neutron L5

DESC: Radiation Transport neutron L1

DESC: Cross Sections gamma L5

DESC: PHYSICAL DOSE ; THEORY CALCULATIONS

DESC: Radiation Transport gamma L1

REPN: ORNL TM 2991

SUJO: 9-620-000 ; 9-650-000 ; 9-820-000 ; 9-830-000
TITL: CALCULATION OF NEUTRON INDUCED PHYSICAL DOSES IN HUMAN TISSUES,
NEUTRON PHYSICS DIVISION (U), 102 P, (U)

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copy: 1 id: 44521-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10639
ADNO: 509896L
AUTH: SULLIVAN J.M. ; FENIGER D.J. ; GAMBILL B.
CLSS: C 3
CCDE: WRECS IV
CONN: DCA 100 67 C 0021
CORP: TEMPO/GENERAL ELECTRIC COMPANY (SANTA BARBARA-CA)
DATE: 7006
DESC: VLF HF LF ; CODE
DESC: Nuclear Weapon Effects EM Propagation refraction multipath L1 FLOW

DIAGRAMS

REPN: 70TMP 26 IIA
SUJO: 2-321-200
TEMP: 81306
TITL: WRECS IV A FORTRAN CODE FOR COMPUTATION OF WEAPON RADIATION EFFECTS
ON COMMUNICATION SYSTEMS, ADDENDUM TO VOLUME 2, SUBROUTINES SCALE,
ENO (U), 40 P, (C)

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copy: 1 id: 44534-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10640
ADNO: 871810
AUTH: SULLIVAN J.M. ; FENIGER E.J. ; GAMBILL B.
CLSS: U
CCDE: WRECS IV
CONN: DCA 100 67 C 0021
CORP: TEMPO/GENERAL ELECTRIC COMPANY (SANTA BARBARA-CA)
DATE: 7006
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry L1

TECHNICAL DESCRIPTION

DESC: LF HF VLF ; SUMMARY CODE
REPN: 70TMP 26 V1
SUJO: 2-310-000
TITL: WRECS IV A FORTRAN CODE FOR COMPUTATION OF WEAPON RADIATION EFFECTS
ON COMMUNICATION SYSTEMS, VOLUME 1, TECHNICAL DESCRIPTION (U), 59 P,
(U)

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copy: 1 id: 44535-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 10641
ADNO: 871811
AUTH: SULLIVAN J.M. ; FENIGER E.J. ; GAMBILL B.
CLSS: U
CCDE: WRECS IV
CONN: DCA 100 67 C 0021
CORP: TEMPO/GENERAL ELECTRIC COMPANY (SANTA BARBARA-CA)
DATE: 7006
DESC: CODE DESCRIPTION ; CODE
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry L1
DESC: Nuclear Weapon Effects EM Propagation refraction multipath L1
REPN: 70TMP 26 V2
SUJO: 2-310-000 ; 2-321-200
TITL: WRECS IV A FORTRAN CODE FOR COMPUTATION OF WEAPON RADIATION EFFECTS
ON COMMUNICATIONS SYSTEMS, VOLUME 2 (U), 237 P, (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 10642
ADNO: 871823
AUTH: SULLIVAN J.M. ; FENIGER E.J. ; GAMBILL B.
CLSS: U
CCDE: WRECS IV
CONN: DCA 100 67 C 0021
CORP: TEMPO/GENERAL ELECTRIC COMPANY (SANTA BARBARA-CA)
DATE: 7006
DESC: Nuclear Weapon Effects EM Propagation refraction multipath L1
SIMULATION TECHNIQUES TAPE MNEMONICS TAPE USAGE OPTIONS INPUT DATA
DESC: CODE
REPN: 70TMP 26 V3
SUJO: 2-321-200
TITL: WRECS IV, A FORTRAN CODE FOR COMPUTATION OF WEAPON RADIATION EFFECTS
ON COMMUNICATION SYSTEMS, VOLUME 3, SYSTEM AND OPERATING DESCRIPTION
(U), 33 P, (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 10643
ADNO: 871816
AUTH: SULLIVAN J.M. ; FENIGER E.J. ; GAMBILL B.
CLSS: U
CCDE: WRECS IV
CONN: DCA 100 67 C 0021
CORP: TEMPO/GENERAL ELECTRIC COMPANY (SANTA BARBARA-CA)
DATE: 7006
DESC: Solid Mechanics stress-strain L1 STATIC DEFORMATION ONE D TWO D
CALCULATION PARTICLE
DESC: FLOW DIAGRAM LISTING ; CODE
REPN: 70TMP 26 V4
SUJO: 9-230-000
TITL: WRECS IV A FORTRAN CODE FOR COMPUTATION OF WEAPON RADIATION EFFECTS
ON COMMUNICATION SYSTEMS, VOLUME 4, FLOWCHARTS AND LISTINGS (U), 430
P, (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 10644
ADNO: 871679
AUTH: MCINGVALE P.H. ; RUWE V.W.
CLSS: U
CONN: DA 1 X 222251 D 231
CORP: ARMY/MISSILE COMMAND (REDSTONE ARSENAL-AL)
DATE: 6912
DESC: Nuclear Weapon Effects electronic subsystems guidance control L1
TRANSISTORS
DESC: DATA
DESC: Nuclear Weapon Effects missile systems strategic L1 LANCE
REPN: RG TR 69 20
SUJO: 3-112-100 ; 3-211-000
TITL: LANCE GUIDANCE, CONTROL, AND CHECKOUT ELECTRONIC SYSTEMS NUCLEAR
RADIATION VULNERABILITY STUDY, VOLUME 1, LANCE VULNERABILITY STUDY
PHILOSOPHY AND COMPONENTTEST (U), 53 P (U)
TREE: 342 ; 392

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 10654
ADNO: 509621
AUTH: AVRAMI L. ; JACKSON H.J. ; KIRSHENBAUM M.S.
CLSS: U
CORP: PICATINNY ARSENAL (DOVER-NJ)
DATE: 7006
DESC: Nuclear Weapon Effects ordnance explosives L1 FLLIOROEXPLOSIVES
MFTNB DFTNB TFET-TETRYL TNTF WEIGHT LOSS VACUUM STABILITY MELTING
POINTS IMPACT SENSITIVITY RATES OF DETONATION
DESC: GAMMA EFFECTS ; EXPERIMENTAL DATA SUMMARY
REPN: AFATL TR 70 29 ; TECH REPORT 3942
SUJO: 3-163-000
TEMP: 71877
TITL: EFFECTS OF GAMMA RADIATION ON SELECTED FLUOROEXPLOSIVES (U), 80 P
(C)

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created: 12/27/1991 type: REPORT permanent

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INUM: 10666
ADNO: 510071L
AUTH: ROHRINGER G. ; ARCHER D.H.
CLSS: SRD 1
CONN: AF 29601 69 C 0025
CORP: GENERAL ELECTRIC COMPANY/TEMPO (SANTA BARBARA-CA)
DATE: 7005
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry L1
THERMAL EMISSION CHEMILUMINESCENT EMISSION OXIDE CONCENTRATIONS
DESC: HIGH ALTITUDE LONG WAVE IR ; THEORY
REPN: 69 TMP 60 ; ARPA 727 ; TR 69 131
SUJO: 2-310-000
TEMP: 71930
TITL: METAL OXIDE FORMATION AND INFRARED RADIATION FROM ATMOSPHERIC
NUCLEAR DETONATIONS (U), 47 (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 10668
ADNO: 510072L
AUTH: MCKEE J.W. ; GRIESINGER D.W.
CLSS: SRD 1
CONN: F 29 601 69 C 0025
CORP: GENERAL ELECTRIC COMPANY/TEMPO (SANTA BARBARA-CA)

DATE: 7005
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry L1
CONTINUUM RADIATION STRIATION WIDTH BRIGHTNESS CO2 BAND EMISSION
DESC: HIGH ALTITUDE LWIR ; THEORY
DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical
devices sensors IR detectors L1 DEGRADATION MODES PERFORMANCE
CRITERIA

REPN: AFWL TR 69 140 ; ARPA 727 ; 69 TMP 19
SUJO: 2-310-000 ; 3-133-000
TEMP: 71932
TITL: NUCLEAR-INDUCED OPTICAL BACKGROUNDS (U), 85 P (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 10686
ADNO: 503327L
AUTH: POSSI W.J. ; OSTON S.G.
CLSS: SRD 1
CCDE: ELTRAN, DAFFER II, PEPKA, XIP
CONN: F 30602 68 C 0031
CORP: AVCO CORPORATION (WILMINGTON-MA)
DATE: 6907
DESC: X RAYS ; THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio
microwave systems L1 HARDENED ANTENNA DEV-31 DEPOSITON PROFILES IN
HIGH Z MATERIALS E-BEAM TESTS UNDERGROUND TEST REQUIREMENTS HIGH PSI
REGIONS

REPN: AVSSD 0058069 RR ; RADC TR 69 167
SUJO: 3-132-000
TEMP: 71978
TITL: RADIATION EFFECTS ON HARDENED GROUND BASED ANTENNA MATERIALS (U),
197 P, (SRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 10704
ADNO: 503582L
AUTH: CHATFIELD A.B.
CLSS: SRD 1
CONN: F 04701 68 C 0200
CORP: AEROSPACE CORPORATION (SAN BERNARDINO-CA)
DATE: 6908

DESC: X RAY THERMAL SHOCK ; SUMMARY DATA
DESC: Nuclear Weapon Effects electronic subsystems guidance control L1
GYROS
DESC: Nuclear Warfare Strategic targeting CEP footprints dispersion L1
DESC: Nuclear Weapon Effects reentry systems penails L1 FRACTURE
SPALLATION CURLING BLOWOFF CHAFF CLOUD HARDNESS
DESC: Nuclear Weapon Effects electronic pieceparts measuring devices
sensors detectors L1 ACCELEROMETERS
REPN: TR 0200 (S 4970 10) 2 ; SAMSO TR 69 241
SHOT: NATIVE MIST ; MILK SHAKE
TSHO: UNDERGROUND
SUJO: 3-117-000 ; 3-211-000 ; 3-224-000 ; 3-425-300
TEMP: 73023
TITL: EFFECTS OF GAMMA RADIATION ON SELF-ALIGNING BOOST AND REENTRY
INERTIAL COMPONENTS AND RESULTING TARGET MISS (U), CIRCA 108 P (SRD)

TREE: 342

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10747

ADNO: 871923

AUTH: SCHWARTZ E.G.

CLSS: U

CONN: DA 04 495 AMC 1144 T

CORP: NORTHROP CORPORATE LABORATORIES (HAWTHORNE-CA)

DATE: 7004

DESC: DATA SUMMARY

DESC: test instruments hardened instruments L1 EMP RESISTANCE PRESSURE

INTEGRITY MECHANICAL SHOCKRESISTANCE RADIATIONRESISTANCE

EMPF: 871

REPN: NCL 68 72 R

SUJO: 4-360-000

TITL: DEVELOPMENT OF A RADIATION HARDENED RECORDER, FINAL REPORT (U), 167
P., (U)

TREE: 650

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10760

AUTH: SHERMAN C.H. ; GORDON N.E.

CLSS: U

CONN: F19628 68 C 0188

CORP: PARKE MATHEMATICAL LABORATORY (CARLISLE-MA)
DATE: 7005
DESC: THEORY
DESC: Radiation Transport electron L1 SLOWING DOWN ELECTRON
REPN: AFCRL 70 0324 ; SCIENTIFIC REPORT 3
SUJO: 9-680-000
TITL: CLASSICAL THEORY OF ELECTRON SLOWING DOWN COMPARISON WITH EXPERIMENT
(U), 41 P, (U)

TREE: 990

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10763

ADNO: 872246L

AUTH: HANES F. P.

CLSS: U

CORP: ARMY/ENGINEER WATERWAYS EXPERIMENT STATION (VICKSBURG-MS)

DATE: 7006

DESC: SIMULATION (HE) ; EXPERIMENTAL

DESC: Radiation Transport gamma L1 COUPLED NEUTRON AND GAMMA TRANSPORT

DESC: Radiation Transport neutron L1 COUPLED NEUTRON AND GAMMA TRANSPORT

DESC: Nuclear weapon test timing position firing data L1 SCATTER AL FE NI

CU PB

REPN: MS 2169

SHOT: MINE UNDER ; MINE ORE ; MINERAL LODE ; MINERAL ROCK

TSHO: SURFACE

SUJO: 4-834-000 ; 9-620-000 ; 9-650-000

TITL: OPERATION MINE SHAFT, AN ELECTRONIC SYSTEM FOR PRECISE TIMING AND
FIRING CONTROL OF EXPLOSIVE TESTS, FINAL REPORT (U), 33 P, (U)
EXPLOSIVE TESTS, OPERATION MINE SHAFT (U), 33 P, (U)

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copy: 1 id: 44640-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10800

AUTH: ANDREWS J.L. ; TARKA J.E.

CLSS: U

CORP: GENERAL ELECTRIC COMPANY (PHILADELPHIA-PA)

DATE: 7003

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1

DESC: Nuclear Weapon Effects electronic pieceparts solar cells L5 SOLAR
CELL P8

DESC: Simulation Facilities Techniques x-ray effects L1 FX-25
DESC: SIMULATION (E-BEAM) XRAY ; EXPERIMENTAL
REPN: 70 DS 234
SUJO: 3-221-000 ; 3-223-000 ; 4-231-000
TITL: PROCEDURES IN RADIATION EFFECTS TESTING UTILIZING PULSED ELECTRON
BEAMS (U), 32 P, (U)

TREE: 642

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copy: 1 id: 44655-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10807

CLSS: S

CONN: N00140 70 C 0015

CORP: RAYTHEON COMPANY (SUDBURY-MA)

DATE: 7006

DESC: THEORY

DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio
microwave systems L1ANTENNA BLAST AND SHOCK THERMAL INTEGRATED
EFFECTS

REPN: SR70 4180

SUJO: 3-132-000

TEMP: 73163

TITL: STUDY OF COMBINED THERMAL RADIATION AERODYNAMIC AIR BLAST LOAD AND
RADAR PERFORMANCE ANALYSES OF THE AN/SPS 49 ANTENNA, FINAL REPORT
(U) 250 P, (S)

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copy: 1 id: 44657-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 10826

ADNO: 710267

AUTH: STRAKER E.A.

CLSS: U

CORP: OAK RIDGE NATIONAL LABORATORY (OAK RIDGE-TN)

DATE: 7007

DESC: SURVEY BIBLIOGRAPHY

DESC: Radiation Transport neutron L1

DESC: Cross Sections neutron L1

REPN: ORNL TM 3065

SUJO: 9-650-000 ; 9-820-000

TITL: STATUS OF NEUTRON TRANSPORT IN THE ATMOSPHERE (U), 27 P (U)

TREE: 970

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copy: 1 id: 44667-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 10859
AUTH: LANDSHOFF R.K. ; HILLDENDAHL R.W. ; WILSON K.H. ; BERG R.A. ;
JOHNSTON R.R. ; SCHMICKLEY R.D
CLSS: S 1
CCDE: FIREBALL ; RATRAC
CONN: F 33657 69 C 0796
CORP: LOCKHEED MISSILES & SPACE COMPANY (PALO ALTO-CA)
DATE: 7001
DESC: Radiation Transport visible L1
DESC: CODE THEORY EXPERIMENTAL
DESC: Cross Sections visible L1
DESC: Nuclear Weapon Environment Visible Output source strength total
intensity L5
DESC: Nuclear Weapon Phenomenology Fireball Internal Pressure Temperature
Density Particle Velocities L5
DESC: Nuclear Weapon Environment Infrared Output source strength total
intensity L5
DESC: nuclear test detection visible light detection L1
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1
DESC: Nuclear Weapon Phenomenology Fireball L1 OPTICAL SIGNATURE
REPN: LMSC B 263014
TSHO: HI-ALT ; LOW ALT
SUJO: 1-310-000 ; 1-410-000 ; 2-100-000 ; 2-130-000 ; 4-910-900 ;
5-200-000 ; 9-630-000 ; 9-890-000
TEMP: 73351
TITL: STUDY OF THE INTERPRETATION OF OPTICAL SIGNALS FROM NUCLEAR
DETONATIONS (U), 114 P (S)

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copy: 1 id: 44689-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 10872
ADNO: 506292
AUTH: SCOTT R.O.
CLSS: SRD 1
CONN: F 33615 68 C 1292
CORP: LTV AEROSPACE CORPORATION (DALLAS-TX)
DATE: 6904
DESC: Cross Sections x-ray L5
DESC: FABRICATION-ABSORBER CONCEPTS XRAY ; SURVEY
DESC: Nuclear Weapon Effects materials plastics resins L1 PYROLYZED

PLASTICS

DESC: Nuclear Weapon Effects materials composites L1 MATERIAL
PROPERTIESAPPENDIX B CARBONACEOUSCOMPOSITES
REPN: MS T 00.1169 ; MSDLES 2749
SUJO: 3-244-000 ; 3-249-000 ; 9-840-000
TEMP: 73362
TITL: THERMAL/NUCLEAR RADIATION PROTECTIVE PYROLYZED PLASTIC COMPOSITE
(U), 98 P (SRD)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10876
ADNO: 860950L
AUTH: DERKSEN W.L. ; MANGIOLA J.
CLSS: U
CORP: NAVY/NAVAL APPLIED SCIENCE LABORATORY (BROOKLYN-NY)
DATE: 6910
REPN: PR 21
TITL: EXPERIMENT ON THE AVOIDANCE OF THERMAL RADIATION BURNS FROM NUCLEAR
WEAPONS BYEVASIVE ACTION (U), 31 P, (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 10886
ADNO: 704688
AUTH: BURTON D.E.
CLSS: U
CCDE: NCG
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 7001
DESC: Nuclear Weapon Environment fallout transport L1
DESC: Nuclear Weapon Phenomenology cloud development rise L1 TABLE OF
CLOUD PARAMETERS P 13
DESC: Nuclear Weapon Environment fallout Deposition L1
REPN: NCG 77 19
SHOT: DANNY BOY ; CABRIOLET ; BUGGY ; SEDAN ; ESS ; SCHOONER ; UNCLE ;
SUGAR ; JOHNIE BOY
TSHO: SURFACE ; UG-VENTED
SUJO: 2-224-100 ; 2-224-200 ; 2-225-000
TITL: NCG FALLOUT SCALING MODEL: A GRAPHIC NUMERICAL METHOD OF PREDICTING
FALLOUT PATTERNS FOR NUCLEAR CRATERING DETONATIONS (U), 76 P, (U)

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copy: 1 id: 44722-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 10891
ADNO: 708566
AUTH: MILLER C.F.
CLSS: U
CONN: DAHC 20 69 C 0142
CORP: URS RESEARCH COMPANY (SAN MATEO-CA)
DATE: 6909
DESC: Nuclear Weapon Environment radiation decay isotopic half lives L1
DESC: EXPERIMENTAL
REPN: URS 757 4
SHOT: PRISCILLA
TSHO: LOW-ALT
SUJO: 2-223-410
TITL: SOME PROPERTIES OF RADIOACTIVE FALLOUT-BALLOON MOUNTED SHOT
PRISCILLA (U), 24 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 10892
ADNO: 708567
AUTH: MILLER C.F.
CLSS: U
CONN: DAHC 20 69 C 0142
CORP: URS RESEARCH COMPANY (SAN MATEO-CA)
DATE: 6909
DESC: Nuclear Weapon Environment Fallout Particles size distribution L1
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment radiation decay isotopic half lives L1
REPN: URS 757 5
SHOT: COULOMB C
TSHO: SURFACE
SUJO: 2-222-300 ; 2-223-410
TITL: SOME PROPERTIES OF RADIOACTIVE FALLOUT-SURFACE DETONATION COULOMB C
(U), 24 P., (U)

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copy: 1 id: 44727-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 10897
ADNO: 869172
CLSS: U
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AFB-NM)
DATE: 6912
DESC: Nuclear Weapon Effects materials metals alloys L1
DESC: equation of state heat of vaporization thermal conductivity opacity
L1
DESC: Solid Mechanics L1
DESC: X RAY NEUTRON MATERIAL RESPONSE ; THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects materials composites L1
SUJO: 3-243-000 ; 3-249-000 ; 9-200-000 ; 9-710-000
SYMJ: PROCEEDINGS OF A MEETING, RADIATION EFFECTS 3-4 DECEMBER 1969
TITL: RADIATION EFFECTS, VOLUME I, PROCEEDINGS OF A MEETING 3 AND 4
DECEMBER 1969 (U), 302 P, (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 10897P7
CLSS: U
CORP: WASHINGTON STATE UNIVERSITY (PULLMAN-WA) ; BALLISTICS RESEARCH
LABORATORY (ABERDEEN PROVING GROUND-MD)
DATE: 6912
DESC: THEORY
DESC: Nuclear Weapon Effects materials composites L1 QUARTZ AND
POLYETHYLENE
DESC: equation of state heat of vaporization thermal conductivity opacity
L1 COMPOSITES EQUILIBRIUM HUGONIOT
SUJO: 3-249-000 ; 9-710-000
SYMJ: CONTAINED IN RADIATION EFFECTS, VOLUME I, PROCEEDINGS OF A MEETING 3
AND 4 DECEMBER 1969
TITL: COMPRESSION OF COMPOSITE MATERIALS (U), 36 P, (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 10897P39
AUTH: DRUGER R. A.
CLSS: U
CORP: SYSTEMS SCIENCE AND SOFTWARE (LA JOLLA-CA)

DATE: 6912
DESC: Nuclear Weapon Effects materials not systems associated L1 ENERGY
DEPOSITION X RAY ELECTRONS PLETE IMPACT
DESC: PREDIX ; THEORY CODE
SUJO: 3-240-000
SYMJ: CONTAINED IN RADIATION EFFECTS, VOLUME I, PROCEEDINGS OF A MEETING 3
AND 4 DECEMBER 1969
TITL: MATERIAL RESPONSE PROGRAM, RIP (U), 24 P, (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10897P65
AUTH: MCCLAMMY H. C.
CLSS: U
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AFB-NM)
DATE: 6912
DESC: PREDIX ; THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects materials metals alloys L1 DYNAMIC FRACTURE X
RAY EB AL IRON
DESC: Solid Mechanics fracture L1
SUJO: 3-243-000 ; 9-220-000
SYMJ: CONTAINED IN RADIATION EFFECTS, VOLUME I, PROCEEDINGS OF A MEETING 3
AND 4 DECEMBER 1969
TITL: DYNAMIC FRACTURE (U), 32 P, (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10897P97
AUTH: MOSS G. L. ; FRANZ R. E.
CLSS: U
CORP: BALLISTICS RESEARCH LABORATORIES (ABERDEEN PROVING GROUND-MD)
DATE: 6912
DESC: Solid Mechanics stress-strain L1
DESC: PREDIX ; EXPERIMENTAL
SUJO: 9-230-000
SYMJ: CONTAINED IN RADIATION EFFECTS, VOLUME I, PROCEEDINGS OF A MEETING 3
AND 4 DECEMBER 1969
TITL: DEFECTS IN SHOCKED ALUMINUM (U), 32 P, (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 10897P129
AUTH: ISBELL W. M. ; CHRISTMAN D. R.
CLSS: U
CORP: GENERAL MOTORS TECHNICAL CENTER (WARREN-MI)
DATE: 6912
DESC: Nuclear Weapon Effects materials metals alloys L1 AL XRAY SPALL
FRACTURE
DESC: Solid Mechanics fracture L1
DESC: PREDIX ; EXPERIMENTAL
SUJO: 3-243-000 ; 9-220-000
SYMJ: CONTAINED IN RADIATION EFFECTS, VOLUME I, PROCEEDINGS OF A MEETING 3
AND 4 DECEMBER 1969
TITL: SHOCK PROPAGATION AND FRACTURE IN 6061-T6 ALUMINUM FROM WAVE PROFILE
MEASUREMENTS (U), 41 P, (U)

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10897P129

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copy: 1 id: 44732-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 10897P171
AUTH: HERRMANN W. ; LAWRENCE R. J. ; MASON D. S.
CLSS: U
CORP: SANDIA LABORATORIES (ALBUQUERQUE-NM)
DATE: 6912
DESC: Nuclear Weapon Effects materials metals alloys L1 AL XRAY
DESC: THEORY
DESC: Solid Mechanics stress-strain L1 STRAIN RATE EFFECTS
SUJO: 3-243-000 ; 9-230-000
SYMJ: CONTAINED IN RADIATION EFFECTS, VOLUME I, PROCEEDINGS OF A MEETING 3
AND 4 DECEMBER 1969
TITL: EFFECT OF STRAIN HARDENING AND STRAIN RATE IN ELASTIC PLASTIC WAVE
PROPAGATION(U), 52 P, (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 10897P223
AUTH: CHOU P.C. ; CHEN S.
CLSS: U
CORP: DREXEL INSTITUTE OF TECHNOLOGY (PHILADELPHIA-PA)

DATE: 6912
DESC: equation of state heat of vaporization thermal conductivity opacity
L1 ENERGY DEPOSITION X RAY
DESC: THEORY
SUJO: 9-710-000
SYMJ: CONTAINED IN RADIATION EFFECTS, VOLUME I, PROCEEDINGS OF A MEETING 3
AND 4 DECEMBER 1969
TITL: METHOD OF CHARACTERISTIC CODE FOR ENERGY DEPOSITION CALCULATIONS
(U), 32 P, (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10897P255
AUTH: SHISHMAN T. T.
CLSS: U
CORP: SANDIA LABORATORIES (ALBUQUERQUE-NM)
DATE: 6912
DESC: THEORY CODE
DESC: Radiation Transport neutron L1
SUJO: 9-650-000
SYMJ: CONTAINED IN RADIATION EFFECTS, VOLUME I, PROCEEDINGS OF A MEETING 3
AND 4 DECEMBER 1969
TITL: PROGRAM MAGYAR, A SINGLE COLLISION MODEL NEUTRON HEATING CODE FOR
COMPONENT DESIGN (U), 13 P, (U)

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copy: 1 id: 44735-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10897P269
AUTH: COST T.L.
CLSS: U
CORP: UNIVERSITY OF ALABAMA (UNIVERSITY-AL)
DATE: 6912
DESC: Nuclear Weapon Effects materials carbon L5
DESC: THEORY
DESC: Solid Mechanics stress-strain L1 VISCOELASTIC MATL
SUJO: 3-248-000 ; 9-230-000
SYMJ: CONTAINED IN RADIATION EFFECTS, VOLUME I, PROCEEDINGS OF A MEETING 3
AND 4 DECEMBER 1969
TITL: CHARACTERIZATION OF VISCOELASTIC MATERIALS FOR STRESS WAVE ANALYSIS
(U), 15 P,(U)

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10897P269

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10904
ADNO: 874887
AUTH: BROOKS J. ; CELNIK J. ; SCHAMBERGER R.D.
CLSS: U
CCDE: CORSAIR-P ; MONTE ; BAND ; EDITB
CONN: F 29 601 69 C 0081
CORP: UNITED NUCLEAR CORPORATION (ELMSFORD-NY)
DATE: 7008
DESC: Radiation Transport neutron L1
DESC: Radiation Transport x-ray L1
DESC: CODE
DESC: Radiation Transport gamma L1
REPN: AFWL TR 69 157 ; UNC 2355
SUJO: 9-620-000 ; 9-640-000 ; 9-650-000
TITL: CORSAIR-P: A FORTRAN MONTE CARLO PROGRAM FOR PHOTON AND NEUTRON
TRANSPORT THROUGH AN EXPONENTIAL ATMOSPHERE (U)90 P (U)
TREE: 970

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10904

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copy: 1 id: 44744-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 10914
ADNO: 862508L
AUTH: ARZULOWICZS. HILL D. ; MEDINA B. ; SCHOLZ
CLSS: U
CCDE: ERANGE ; TMATRIX
CONN: AF 04 695 913
CORP: VITRO LABORATORIES (SILVER SPRING-MD)
DATE: 6908
DESC: TRANSPORT IN A REALISTIC CURVED ATMOSPHERE ; THEORY CODE
DESC: nuclear test detection initial gamma detection L5
DESC: Radiation Transport gamma L1
SUJO: 4-910-800 ; 9-620-000
TITL: TRANSPORT CALCULATIONS FOR MEV GAMMA RAYS IN THE ATMOSPHERE (U),
CIRCA 50 P (U)
TREE: 960

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10914

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 10931
ADNO: 860198L
AUTH: ROTHSTEIN M.
CLSS: U
CONN: DASA 01 68 C 0087
CORP: GULF GENERAL ATOMIC (SAN DIEGO-CA)
DATE: 6909
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources L1
DESC: Simulation Facilities Techniques x-ray effects L1
DESC: EXPERIMENTAL THEORY
REPN: DASA 2343 PT 2 ; GA 9369
SUJO: 4-231-000 ; 4-241-000
TITL: SIMULATION TECHNIQUES FOR COMPOSITE SHIELD TESTING, PART 2, SHORT
PULSE WIDTH (1 TO 2 MSEC) ENERGY RELEASES AND ENERGY PROFILING IN
URANIUM LOADED TEST SPECIMENS USING TRIGA (U), 87 P, (U)
TREE: 642

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copy: 1 id: 44769-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 10971
ADNO: 856408L
AUTH: MEREDITH R.M.
CLSS: U
CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)
DATE: 6907
DESC: UNDERWATER OBSERVATION
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1 UPTAKE BY SLIKE
DESC: Nuclear Weapon Environment fallout transport L1 ZOOPLANKTON
TRANSPORT
REPN: NRDL TR 69 84
SUJO: 2-224-200 ; 3-312-220
TITL: BIOLOGICAL TRANSPORT OF NUCLEAR WEAPONS (U), 71 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 11011
ADNO: 508821

AUTH: BARDON R.L.
CLSS: SRD 1
CONN: AF 04 694 791
CORP: BOEING COMPANY (SEATTLE-WA)
DATE: 7005
DESC: Nuclear Weapon Effects missile systems strategic L1
DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses L1
DESC: Nuclear Test Simulation Field Programs experiment design x-ray
experiments L1
DESC: X-RAY ; EXPERIMENTAL
REPN: D 2 18855 2
TSHO: UG CONTAINED
SUJO: 3-112-100 ; 3-162-000 ; 4-820-500
TEMP: 73432
TITL: SPECIAL RADIATION TEST OF CERTAIN MINUTEMEN COMPONENTS, TEST REPORT
(U), 87 P (SRD)

TREE: 392

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11011

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 11015

AUTH: KREY K.H. ; HOADLEY J.C.

CLSS: U

CORP: HARRY DIAMOND LABORATORIES (WASHINGTON-DC)

DATE: 7007

DESC: test instruments electronic vulnerability EMP L1 MAGNETIC FIELD

RECORDERS

DESC: Nuclear Weapon Effects electronic pieceparts measuring devices

sensors detectors L1 SIMULATED X-RAY TREE

DESC: EXPERIMENTAL

EMPF: 871

REPN: HDL TR 1516

SUJO: 3-224-000 ; 4-371-000

TITL: NUCLEAR RADIATION EFFECTS IN INSTRUMENTATION TAPE RECORDER

ELECTRONICS (U), 66 P (U)

TREE: 368

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11015

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 11027

ADNO: 503365

AUTH: KOWALCZYK F.S. ; STEVENS H.C. ; THEOPHANIS G.A.

CLSS: SRD 1
CONN: AF 33615 68 C 1588
CORP: AVCO CORPORATION (LOWELL-MA)
DATE: 6908
DESC: Simulation Facilities Techniques x-ray effects L5
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects reentry systems penails L1 X RAY
REPN: AVATD 0131 69 CR ; AFAL TR 69 198
PROJ: SIMULATION
SHOT: MIDI MIST ; NATIVE MIST ; DOUBLE PLAY
SUJO: 3-117-000 ; 4-231-000
TEMP: 73370
TITL: RADIATION RESISTANT CHAFF, FINAL REPORT (U), 71 P, (SRD)

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copy: 1 id: 44842-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 11035
ADNO: 505737L
AUTH: STOLTZ P.G.
CLSS: SRD 1
CCDE: MUREE
CONN: DA 49 092 ARO 10
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK-CA)
DATE: 6910
DESC: Nuclear Warfare Theater C3I L1
DESC: Nuclear Weapon Effects flight systems airplanes L5 BLAST NUCLEAR
RADIATION COMMUNICATION AIRCRAFT
DESC: CODE SURVEY
DESC: Nuclear Warfare Theater tactical air defense offense L1
REPN: SRI TR 5205 37 VOL 5 ; SRI 9 986
SUJO: 3-111-000 ; 3-412-200 ; 3-412-300
TEMP: 73467
TITL: ANALYSIS OF CONCEPTS FOR ARMY IN THE FIELD AIR DEFENSE COMMAND,
CONTROL, AND COMMUNICATIONS POST 1975, ADCCS, POST 1975 VOLUME 5
APPENDICES J THROUGH L (U),272 P (SRD)

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11035

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 11073
AUTH: ROSSMAN R.V. ; OLIVER D.B. ; HUNTINGTON J.H.
CLSS: SFRD
CONN: FO 4611 69 C 0062

CORP: PHYSICS INTERNATIONAL COMPANY (SAN LEANDRO-CA)
DATE: 7009
DESC: Nuclear Weapon Effects ordnance propellants solid L1 XRAY SIMULATION
DESC: EXPERIMENTAL
REPN: PIQR 143 6
SUJO: 3-164-000
TEMP: 73523
TITL: EFFECTS OF RADIATION OF PROPELLANT SYSTEMS (U), 34 P, (S)

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11073

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copy: 1 id: 44875-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 11085
AUTH: HARPSTER W.R. ; LUEBKE E.A.
CLSS: SRD 1
CONN: N 000 19 70 C 0342
CORP: GENERAL ELECTRIC COMPANY/TEMPO (SANTA BARBARA-CA)
DATE: 7007
DESC: Nuclear Weapon Phenomenology cloud shape size L5
DESC: Nuclear Weapon Effects flight systems airplanes L1 BLAST NUCLEAR
RADIATION THERMAL
DESC: Nuclear Weapon Environment dust moisture injection atmosphere L5
DESC: Nuclear Weapon Environment Airblast static overpressure
OVERPRESSURE.L5
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1 IN
AIRCRAFT
DESC: SURVEY
DESC: Nuclear Weapon Phenomenology Fireball Internal Pressure Temperature
Density Particle Velocities L5 PRESSURE
REPN: 70 TMP 53
TSHO: SURFACE
SUJO: 2-130-000 ; 2-222-400 ; 2-224-140 ; 2-611-000 ; 3-111-000 ;
3-312-100
TEMP: 73026
TITL: VULNERABILITY OF AIRCRAFT JET ENGINES TO EXPLOSIVE ENVIRONMENTS,
FINAL REPORT (U), 108 P (SRD)

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11085

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copy: 1 id: 44881-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 11103
ADNO: 508685
AUTH: MATTHEWS H.J.
CLSS: SRD 1

CORP: HARRY DIAMOND LABS (WASHINGTON, DC)
DATE: 6911
DESC: Nuclear Weapon Effects materials wood paper cellulose films L5
THERMAL
DESC: Nuclear Weapon Effects on animals thermal burns heating L5
DESC: Nuclear Weapon Effects electronic subsystems guidance control L1
TREE SIMULATION
DESC: EXPERIMENTAL THEORY
DESC: Nuclear Weapon Effects missile systems tactical L1 THERMAL EMP
NUCLEAR RADIATION TREE
DESC: Nuclear Weapon Effects structures hard launch sites structures L5
EMP NUCLEAR RADIATION PERMANENT DAMAGE
DESC: Nuclear Weapon Effects supply containers L5 P37 THERMAL
DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses L1
TREE SIMULATION
DESC: Nuclear Weapon Environment Thermal Output rate L5
DESC: Nuclear Weapon Effects materials carbon L5 P37 THERMAL
EMPF: 364
REPN: HDL TR 1465 S
SUJO: 1-240-000 ; 3-112-300 ; 3-116-100 ; 3-162-000 ; 3-172-000 ;
3-211-000 ; 3-246-000 ; 3-248-000 ; 3-313-100
SYST: SERGEANT TACTICAL MISSILE
TEMP: 73859
TTTL: SUSCEPTIBILITY AND VULNERABILITY OF THE SERGEANT MISSILE SYSTEM TO
NUCLEAR WEAPONS EFFECTS, FINAL REPORT, SUPPLEMENTS B THROUGH G (U),
365 P., (SRD)

TREE: 392

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11103

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 11152

AUTH: STRAKER E.A. ; STEVENS P.N. ; IRVING D.C. ; CAIN V.R.

CLSS: U

CCDE: MORSE

CORP: OAK RIDGE NATIONAL LABORATORY (OAK RIDGE-TN)

DATE: 7009

DESC: CODE THEORY

DESC: Radiation Transport gamma L1

DESC: Radiation Transport neutron L1

REPN: ORNL 4585

SUJO: 9-620-000 ; 9-650-000

TTTL: MORSE CODE, A MULTIGROUP NEUTRON AND GAMMA RAY MONTE CARLO TRANSPORT
CODE, NEUTRON PHYSICS DIVISION (U), CIRCA 100 P, (U)

TREE: 960 ; 970

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11152

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copy: 1 id: 44938-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 11155
AUTH: COLE R.K.
CLSS: U
CCDE: BUCKL
CORP: SANDIA LABORATORIES (ALBUQUERQUE-NM)
DATE: 7007
DESC: CODE THEORY TABULAR
DESC: Cross Sections x-ray L1
DESC: Radiation Transport x-ray L1
REPN: SC RR 69 855
SUJO: 9-640-000 ; 9-840-000
TITL: BUCKL: PROGRAM FOR RAPID CALCULATION OF X RAY DEPOSITION (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 11163
ADNO: 503197
AUTH: KEBLER R.W.
CLSS: SRD 1
CONN: F 29601 67 C 0023
CORP: UNION CARBIDE CORPORTION (INDIANAPOLIS-IN)
DATE: 6906
DESC: Nuclear Weapon Effects materials plastics resins L1 ABSORBER
CONCEPTS TAILS FABRICATION PROPERTIES
DESC: EXPERIMENTAL
REPN: AFWL TR 68 19
SUJO: 3-244-000
TEMP: 73562
TITL: ADVANCED RADIATION ABSORBER CONCEPTS (U), 50 P, (SRD)

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copy: 1 id: 44952-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 11164
ADNO: 408461
AUTH: MCCORMAC B.M.
CLSS: S 1
CONN: N00014 69 C 0347

CORP: LOCKHEED MISSILES AND SPACE COMPANY (PALO ALTO-CA)
DATE: 7004
DESC: Nuclear RDT&E Research Program Descriptions thermal optical L1
DESC: Nuclear Weapon Phenomenology High-Altitude induced airglow
fluorescence L5
DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR L1
REPN: LMSC B283083 ; LMSC B263083
SUJO: 2-214-000 ; 4-180-000 ; 4-820-600
TEMP: 73377
TITL: INFRARED AIRGLOW STUDIES, FINAL REPORT (U), 28 P, (S)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 11167
AUTH: THEOPHANIS G.A. ; AVERELL J. P.
CLSS: SRD 1
CONN: F04701 68 C 0035
CORP: AVCO SYSTEMS DIVISION (WILMINGTON-MA)
DATE: 6903
DESC: RADS III ; EXPERIMENTAL
DESC: equation of state heat of vaporization thermal conductivity opacity
L1 SUBLIMATION ENERGY
DESC: Simulation Facilities Techniques x-ray effects L1 SIMULATION
TECHNIQUES
REPN: SAMSO TR 69 158 V 9 ; AVMSD 0094 69 RR V 9
SUJO: 4-231-000 ; 9-710-000
TEMP: 73606
TITL: RADIATION DAMAGE STUDY PHASE III RADS III, FINAL REPORT, VOLUME IX
SIMULATION AND ENGINEERING TEST TECHNIQUES (U), 246 P, (SRD)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 11180
ADNO: 510183L
AUTH: BENGSTON J. ; LELEVIER R.
CLSS: S
CONN: DAHC 15 67 C 0011
CORP: INSTITUTE FOR DEFENSE ANALYSES (ARLINGTON-VA)
DATE: 6912
DESC: Nuclear Weapon Environment Infrared Output rate L1
DESC: Nuclear Weapon Phenomenology High-Altitude induced airglow

fluorescence L1

DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology Fireball Chemistry L1
REPN: P 563
SHOT: STARFISH
TSHO: HI ALT
SUJO: 1-340-000 ; 2-160-000 ; 2-214-000
TEMP: 73828
TTTL: NUCLEAR EXCITATION OF NO RADIATION IN THE UPPER ATMOSPHERE (U), 9 P,
(S)

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created: 12/27/1991 type: REPORT permanent

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INUM: 11181

ABS: Nuclear vulnerability considerations for the proposed AGM-86 subsonic cruise armed decoy (SCAD) system are presented. The nuclear vulnerability levels for the anticipated mission-critical components of the AGM-86 system were determined by extrapolating from data obtained from studies of systems with similar components. The nuclear effects considered in this analysis are blast (overpressure and gust velocity), thermal radiation, prompt gamma dose rate, neutron fluence, and electromagnetic pulse. A set of vulnerability levels was established to describe system vulnerability for two conditions? soft and very hard. A threat analysis covering the full range of expected weapon characteristics and operational confrontations was performed. Ranges for each of the soft and hard levels, considering the various mission profiles, were derived from the postulated threats.

ABS: No explicit survivability analysis was performed although survivability implications are apparent in these findings.

ADNO: 510058L

AUTH: CLARK T.D. ; SHARP A.L. ; DASSOW W.R.

CLSS: SRD 1

CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AFB-NM)

DATE: 7005

DESC: Nuclear Weapon Effects missile systems tactical L1 BLAST NUCLEAR
RADIATION X RAY TREE

DESC: Target Analysis system studies missiles L5

DESC: TABULAR

REPN: AFWL TR 69 160

SUJO: 3-112-300 ; 3-431-200

TEMP: 73829

TTTL: PRELIMINARY NUCLEAR VULNERABILITY AND THREAT ANALYSIS OF THE
PROPOSED AGM-86 SUBSONIC CRUISE ARMED DECOY SCAD SYSTEM (U), 64 P,
(SRD)

TNFF: 5850

TREE: 392

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 11213

ADNO: 510012

AUTH: SWATOSH J. JR. ; WIEDERMANN A.H.

CLSS: S

CONN: DACA 73 67 C 0018

CORP: IIT RESEARCH INSTITUTE (CHICAGO-IL)

DATE: 6909

DESC: Nuclear Weapon Effects structures hard launch sites materials L1
DUST

DESC: Nuclear Weapon Phenomenology cloud shape size L1

DESC: Simulation Facilities Techniques blast shock airblast L1 SOIL
EROSION DUST CLOUD

DESC: Nuclear Weapon Environment dust moisture injection atmosphere L1

DESC: Nuclear Weapon Environment Ground Shock heating thermoluminescence
transitions L1

DESC: Nuclear Weapon Environment Fallout Particles size distribution L1

DESC: Nuclear Weapon Effects Light scattering optical interference from
dust L1

DESC: Simulation Facilities Techniques nuclear radiation fallout
simulation L1

DESC: Soil Rock Properties Equation of State Conductivity L1

DESC: SIMULATION MULTIPLE BURST ; EXPERIMENTAL CODE TABULAR THEORY

REPN: J 6012 2 B

SHOT: MET ; PRISCILLA

TSHO: LOW ALT

SUJO: 2-222-300 ; 2-222-400 ; 2-224-140 ; 2-226-000 ; 2-629-000 ;
3-116-200 ; 4-211-000 ; 4-242-000 ; 6-300-000

TEMP: 75124

TITL: NUCLEAR WEAPONS EFFECTS: DUST AND AIR-TEMPERATURE ENVIRONMENTAL
STUDIES (U), CIRCA 680 P (S)

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11213

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 11236

AUTH: RUWE V.W.

CLSS: U

CORP: ARMY/MISSILE COMMAND (REDSTONE ARSENAL-AL)

DATE: 7008

DESC: NEUTRON GAMMA VOLTAGE REGULATOR ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic subsystems analysis circuit

network L1

DESC: test instruments hardened instruments L1
REPN: RG TR 70 13
SUJO: 3-219-000 ; 4-360-000
TITL: RADIATION HARDENED POWER SUPPLY (U), 97 P (U)
TREE: 392

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 11253
AUTH: GILBERT R.M. ; BROMBORSKY A.
CLSS: U
CCDE: CELIT
CORP: HARRY DIAMOND LAB (WASHINGTON-DC)
DATE: 7008
DESC: Cross Sections gamma L1 COMPTON CROSS SECTIONS
DESC: Nuclear Weapon Effects materials metals alloys L1 INTERNAL EMP
ALUMINUM CARBON COPPER
DESC: SIMULATION ; TABULAR CODE THEORY EXPERIMENTAL
EMPF: 391
REPN: HDL TR 1527
SUJO: 3-243-000 ; 9-830-000
TITL: EMISSION OF COMPTON ELECTRONS FROM MATERIALS EXPOSED TO GAMMA
RADIATION (U), 150 P (U)

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11253

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copy: 1 id: 45049-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 11257
AUTH: STRAKER E.A. ; EMMETT M.B. ; GRITZNER M.L.
CLSS: U
CCDE: DOT ; MORSE
CONN: W 7405 ENG 26
CORP: OAK RIDGE NATIONAL LAB (OAK RIDGE-TN)
DATE: 7011
DESC: TABULAR
DESC: Nuclear Weapon Environment Ground Shock heating thermoluminescence
transitions L1 RADIATION HEATING
REPN: ORNL 4626 ; UC 34
SUJO: 2-629-000
TITL: NEUTRON AND SECONDARY GAMMA-RAY INDUCED HEAT IN THE GROUND DUE TO
POINT 12.2-15-MEV AND FISSION SOURCES AT AN ALTITUDE OF 50 FEET (U),
39 P (U)

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copy: 1 id: 45051-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 11263

AUTH: JOYCE J. W. ; HASPERT J. K. ; COX L.S.

CLSS: SFRD 1

CORP: HARRY DIAMOND LABORATORIES (WASHINGTON-DC)

DATE: 7006

DESC: Nuclear RDT&E Research Program Descriptions integrated effects
system studies L1 USE OF FLUIDIC SYSTEMS

DESC: SUMMARY

DESC: Nuclear Weapon Effects electrical mechanical fluidic devices L1
NUCLEAR RADIATION USES

REPN: HDL TR 1505

SUJO: 3-234-000 ; 4-160-000

TEMP: 75626

TITL: APPLICATIONS FOR FLUIDICS IN MILITARY AEROSPACE SYSTEMS (U), 40 P,
(SFRD)

TREE: 350

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11263

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copy: 1 id: 45055-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 11273

AUTH: BALICKI F. W.

CLSS: C 3

CORP: HARRY DIAMOND LABORATORIES (WASHINGTON-DC)

DATE: 7008

DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1

DESC: Nuclear Weapon Effects missile systems tactical L1

DESC: SIMULATION NUCLEAR RADIATION PERMANENT DAMAGE ; EXPERIMENTAL

REPN: HDL TM 70 17

SUJO: 3-112-300 ; 3-213-000

TEMP: 75619

TITL: NEUTRON HARDENED HIGH GAIN SOLID STATE IF AMPLIFIER (U), 38 P, (C)

TREE: 369

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11273

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copy: 1 id: 45060-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 11315-071
AUTH: HORAK H.G. ; KERR D.M. ; TIERNEY M.S.
CLSS: U
CORP: LOS ALAMOS SCIENTIFIC LAB (LOS ALAMOS NM)
DATE: 7009
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1
DESC: EXPERIMENTAL SUMMARY
SUJO: 2-211-000
SYMJ: WITH PROJECT SECEDE SUMMER STUDY PROCEEDINGS
TITL: RESONANCE RADIATION IN ARTIFICIAL STRONTIUM AND BARIUM CLOUDS (U) 3
P., (U)

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11315-071

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copy: 1 id: 45102-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 11325
AUTH: BALICKI F.W.
CLSS: S 3
CORP: HARRY DIAMOND LABORATORIES (WASHINGTON-DC)
DATE: 7007
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses L1
TREE
DESC: SIMULATION ; EXPERIMENTAL
REPN: HDL TR 1511
SUJO: 3-162-000 ; 3-221-000
TEMP: 75192
TITL: TRANSIENT NUCLEAR RADIATION EFFECTS ON THE XM1140 FUZE (U), 50 P,
(S)
TREE: 397

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11325

.endblock

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copy: 1 id: 45145-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 11340
ADNO: 512512L
AUTH: ROSSMAN R. V. ; HUNTINGTON J. H. ; CASE J. A.
CLSS: SFRD
CONN: F04611 69 C 0062
CORP: PHYSICS INTERNATIONAL COMPANY (SAN LEANDRO-CA)

DATE: 7011
DESC: SIMULATION (ELECTRON BEAM) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects materials metals alloys L1 STAINLESS TENSILE
STRENGTH
DESC: Nuclear Weapon Effects ordnance propellants solid L1
REPN: PIQR 143 7 ; AFRPL TR 70 146
SUJO: 3-164-000 ; 3-243-000
TEMP: 75373
TTTL: EFFECTS OF RADIATION ON PROPELLANT SYSTEMS (U), 48 P, (SRD)

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11340

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copy: 1 id: 45151-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 11346

AUTH: LEHMAN H. R. ; WAGNER R. L. ; WEBSTER W. M. ; KLIKOFF W. A. ;
PEURIFOY R. L.

CLSS: SRD

CORP: LOS ALAMOS SCIENTIFIC LABORATORY, LAWRENCE RADIATION LAB, SANDIA
LABORATORIES

DATE: 6909

DESC: Nuclear Weapon Effects reentry systems RV L1 NUCLEAR RADIATION
THERMAL

DESC: Nuclear Weapon Effects ordnance bombs mines warheads L1 NEUTRON
HEATING

DESC: Nuclear weapon test yield L1 YIELD TO MASS

DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1 MACE ROBIN B SPIT FIRE LASU ARROW

DESC: TABULAR

REPN: SC WD 69 418

SUJO: 1-210-000 ; 3-113-000 ; 3-161-000 ; 4-835-000

TEMP: 75166

TTTL: SURE KILL OF REENTRY VEHICLE THREATS, PART I, NEUTRONS (U), 98 P,
(SRD CNWDI)

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11346

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copy: 1 id: 45154-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 11348

CLSS: SRD CNWDI

CCDE: ENHANC ; SAM-C

CONN: DAHC 60 69 C 0008

CORP: BELL TELEPHONE LABS (WHIPPANY -NJ)

DATE: 7010

DESC: Nuclear Weapon Effects missile systems ABM L1 X RAY INTERNAL EMP

DESC: Radiation Transport gamma L1
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L5
DESC: Nuclear Weapon Effects materials metals alloys L1 ALUMINUM INTERNAL
EMP
DESC: Nuclear Weapon Effects reentry systems RV L1 X RAY
DESC: Nuclear weapon test device physical operation construction geometry
materials components L5 P17
DESC: SAFEGUARD SIMULATION [REDACTED]; THEORY EXPERIMENTAL CODE
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L5
DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L5 [REDACTED]
DESC: Radiation Transport neutron L1
EMPF: 397
SHOT: CYPRESS
TSHO: UG CONTAINED
SUJO: 1-120-000 ; 1-610-000 ; 1-740-000 ; 3-112-200 ; 3-113-000 ;
3-243-000 ; 4-836-000 ; 9-620-000 ; 9-650-000
SYST: SPARTAN MISSILE
TEMP: 75410
TITL: WEAPONS EFFECTS STUDIES, VOLUME I, SYSTEMS SUPPORT STUDIES (U),
CIRCA 200 P, (SRD CNWDI)

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11348

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copy: 1 id: 45155-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 11351
AUTH: CHARMAZ A. W.
CLSS: SRD CNWDI
CONN: W 7405 ENG 36
CORP: LOS ALAMOS SCIENTIFIC LABORATORY (LOS ALAMOS-NM)
DATE: 7010
DESC: Nuclear Weapon Effects ordnance bombs mines warheads L1 NEUTRON
HEATING X RAY
DESC: Nuclear weapon test burn performance L1 P6 ALPHA
DESC: Nuclear Weapon Effects reentry systems RV L1 VISE DISCUSS THROWER
NUCLEAR RADIATION X RAY

DESC: [REDACTED]
REPN: LA 4500
SUJO: 3-113-000 ; 3-161-000 ; 4-837-000
TEMP: 75446
TITL: SALVAGE FUZING IN LARGE REENTRY VEHICLES (U), 22 P, (SRD CNWDI)

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copy: 1 id: 45157-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 11361
CLSS: U
CONN: DAHC 60 69 C 0008
CORP: BELL TELEPHONE LABORATORIES (WHIPPANY-NJ)
DATE: 7010
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 NUCLEAR RADIATION
DESC: SAFEGUARD SIMULATION ; EXPERIMENTAL THEORY
SUJO: 3-221-000
TITL: WEAPONS EFFECTS STUDIES, VOLUME II, RADIATION EFFECTS ON INTERCEPTOR
ELECTRONICS (U), 134 P, (U)
TREE: 392

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11361
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copy: 1 id: 45162-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 11363
ADNO: 512707L
AUTH: KULANDER J. L.
CLSS: C
CONN: N00014 67 C0141
CORP: LOCKHEED MISSILES + SPACE COMPANY (PALO ALTO-CA)
DATE: 7003
DESC: Nuclear Weapon Phenomenology Fireball Chemistry L1
DESC: Nuclear Weapon Phenomenology Fireball Internal Pressure Temperature
Density Particle Velocities L1 ENERGY
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1
DESC: TABULAR
DESC: Nuclear Weapon Environment Ultraviolet Output L1
REPN: LMSC A 791422
TSHO: HI ALT
SUJO: 1-500-000 ; 2-130-000 ; 2-160-000 ; 2-211-000
TEMP: 75469
TITL: DEBRIS AIR PISTON RADIATION AND UV FIREBALL (U), 84 P, (C)

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11363
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copy: 1 id: 45164-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 11399
ADNO: 513024L
AUTH: COX L.S. ; EISENBERG N.A.
CLSS: SRD
CORP: HARRY DIAMOND LABORATORIES (WASHINGTON-DC)

DATE: 7007
DESC: SUMMARY
DESC: Nuclear Weapon Effects electrical mechanical fluidic devices L1 X
RAY
REPN: TR 1520 ; HDL TR 1520
SUJO: 3-234-000
TEMP: 75607
TITL: RADIATION EFFECTS ON FLUERIC COMPONENTS (U), 26 P., (SRD)
TREE: 350

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11399

.endblock

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copy: 1 id: 45185-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 11438
ADNO: 513141
CLSS: SRD 1
CORP: DEFENSE ATOMIC SUPPORT AGENCY (WASHINGTON-DC)
DATE: 7012
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TREE X RAY INTERNAL EMP EMP
DESC: Nuclear Weapon Effects reentry systems RV L1
DESC: Nuclear Weapon Effects electronic subsystems guidance control L1
DESC: Nuclear Weapon Effects missile systems strategic L1
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1
DESC: Nuclear Weapon Effects space systems L1
DESC: SUMMARY
DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses L1
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1
EMPF: 390
REPN: DASA 70 08048
SUJO: 3-112-100 ; 3-113-000 ; 3-114-000 ; 3-162-000 ; 3-211-000 ;
3-219-000 ; 3-221-000 ; 3-222-000 ; 3-231-000
TEMP: 75652
TITL: TRANSIENT RADIATION EFFECTS ON ELECTRONICS (TREE) CONFERENCE
SUMMARIES AND NOTES (U), 219 P, (SRD)
TREE: 300

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11438

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copy: 1 id: 45209-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 11439
ADNO: 513145

AUTH: VAN LINT V.A.J.
CLSS: SRD 1
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO-CA)
DATE: 7011
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L1

DESC: SUMMARY
DESC: Nuclear Weapon Effects electronic piecparts transistors diodes
silicon-controlled rectifiers L1 TREE X RAY
REPN: RT 11015
SUJO: 3-221-000 ; 4-170-000
TEMP: 75651
TITL: SYSTEMS CHALLENGES TO TREE RESEARCH (U), 19 P, (SRD)
TREE: 310

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11439

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copy: 1 id: 45210-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 11457
ADNO: 879053
AUTH: KUCK G.A.
CLSS: U
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AFB-NM)
DATE: 7011
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping L1
DESC: test instruments nuclear radiation beta electron beams L1
DESC: THEORY EXPERIMENTAL
REPN: TN SA 70 1
SHOT: TEAK ; ARGUS I ; ARGUS III ; STARFISH
TSHO: HI ALT
SUJO: 2-217-000 ; 4-344-000
TITL: RESPONSE OF AN INSTRUMENT FLOWN ON 1962 BK. RECALIBRATION OF THE
PROTOTYPE P DETECTOR (U), 20 P, (U)
TREE: 654

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11457

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copy: 1 id: 45222-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 11459
ABS: Survival from a contaminating nuclear attack may depend on a
capability to effectively implement fallout decontamination
operations. The success of these and related recovery operations
will require careful and extensive preplanning. Therefore, a
decontamination and dose control (D/DC) model system was developed

for determining feasible radiological recovery (RAD/REC) plans and procedures consistent with overall postattack requirements.

Decontamination scheduling and target analysis submodels are combined to form the main body and function of the D/DC model design. Together those two submodels contain the planning function from which feasible RAD/REC procedures are generated. Twelve computational routines are described for exercising the model system.

ABS: A series of appropriate cost and effectiveness measures are also defined, to judge the acceptability of various RAD/REC procedures and to choose between alternatives. A test application of the model is made on a regional shopping center. The sample application shows that it is possible to plan and schedule the successful recovery of a large complex without unreasonable expenditure of human and material resources for a range of fallout conditions. However, overexposure of people in lower PF shelters was unavoidable in this example.

ADNO: 714287
AUTH: OWEN W.L.
CLSS: U
CONN: DAHC 20 70 C 0217
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK-CA)
DATE: 7005
DESC: Nuclear Weapon Effects structures aboveground cities L5 FALLOUT
DESC: Nuclear Warfare Postattack Recovery decontamination L1
DESC: SUMMARY
SUJO: 3-252-000 ; 3-448-900
TITL: DESIGN AND APPLICATION OF A DECONTAMINATION AND DOSE CONTROL MODEL
SYSTEM, FINAL REPORT (U), 204 P, (U)

TNFF: 6220

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11459

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copy: 1 id: 45224-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 11525
ADNO: 711021
AUTH: MILLER C.E.
CLSS: U
CONN: DAHC 20 69 C 0142
CORP: URS RESEARCH CO (SAN MATEO-CA)
DATE: 7002
DESC: Nuclear Weapon Effects structures aboveground cities L1 RADIATION
DESC: Nuclear Warfare Strategic force requirements force mix L1
DESC: Target Analysis cities L1
REPN: URS 757 6
SUJO: 3-252-000 ; 3-420-300 ; 3-434-000
TITL: ASSESSMENT OF NUCLEAR WEAPON REQUIREMENTS FOR ASSURED DESTRUCTION
(U), 126 P (U)

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11525
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copy: 1 id: 45266-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 11532
ADNO: 876085L
AUTH: CRANDALL W. E. ; ODELL A. A.
CLSS: U
CONN: DA18 035 AMC 270 A
CORP: NORTRONICS, DIVISION OF NORTHROP CORP (NEWBURY PARK-CA)
DATE: 7008
DESC: test instruments nuclear radiation neutron L1
DESC: SUMMARY
REPN: BRL 13
TSHO: HI ALT
SUJO: 4-342-000
TITL: DEVELOPMENT OF A PROTOTYPE NEUTRON SPECTROMETER SYSTEM SUMMARY
REPORT, FINAL SUMMARY REPORT (U), 107 P, (U)
TREE: 652

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11532
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copy: 1 id: 45271-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 11533
ADNO: 511852 L
AUTH: CRANDALL W.E.
CLSS: SRD 1
CONN: DA 18 035 AMC 270 A
CORP: NORTRONICS, DIVISION OF NORTHROP CORP (NEWBURY PARK-CA)
DATE: 7008
DESC: test instruments nuclear radiation neutron L1
DESC: SUMMARY
REPN: BRL 13
TSHO: HI ALT
SUJO: 4-342-000
TEMP: 77253
TITL: DEVELOPMENT OF A PROTOTYPE NEUTRON SPECTROMETER SYSTEM SUMMARY
REPORT (U), 19 P, (SRD)
TREE: 652

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11533
.endblock
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copy: 1 id: 45272-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 11561
AUTH: BRITTEN A.J. ; BROWN D.I. ; JONES R. ; LUKENS C.
CLSS: U
CONN: 5910.22.20298
CORP: FRANKFORD ARSENAL (PHILADELPHIA-PA)
DATE: 7001
DESC: Nuclear Weapon Effects electronic pieceparts measuring devices
sensors detectors L1 THERMAL IR DETECTORS
DESC: SIMULATION ; THEORY EXPERIMENTAL
DESC: Nuclear Weapon Environment Thermal Output rate L1
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L5
REPN: M 70 7 1
SUJO: 1-240-000 ; 2-110-000 ; 3-224-000
TITL: EFFECTS OF HIGH INTENSITY THERMAL RADIATION ON INFRARED DETECTOR
TUBES, THIRD PROGRESS REPORT (U), 29 P (U)

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11561

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copy: 1 id: 45292-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 11596
AUTH: MANNON W. J.
CLSS: CFRD
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 7009
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Ground Shock velocity arrival time
spectrum duration L1 LONG RANGE OBSERVATION
REPN: UCRL 50928
SHOT: REX ; CHARTREUSE ; DURYEA ; KNICKERBOCKER ; CHATEAUGAY ; STINGER
TSHO: UG
SUJO: 2-622-000
TEMP: 77305
TITL: EXAMINATION OF THE PSEUDO RELATIVE VELOCITY DATA AND THE REGRESSION
ANALYSIS TECHNIQUES USED TO MAKE SEISMIC SAFETY PREDICTIONS FOR LAS
VEGAS HIGH RISE BUILDINGS (U), 44 P, (CFRD)

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copy: 1 id: 45325-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 11619
ADNO: 877785L

AUTH: SIMMERS P. ; GAUSS A. ; WRIGHT W.
CLSS: U
CCDE: RAD CHEM
CORP: BALLISTIC RESEARCH LAB (ABERDEEN PROVING GROUND-MD)
DATE: 7011
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L5
DESC: Fluid Mechanics hydrodynamics L1 WITH RADIATION TRANSPORT
DESC: FLOW CHART PROGRAM AND SUBROUTINE LISTS
REPN: BRL 1509
SUJO: 2-110-000 ; 9-410-000
TITL: BALLISTIC RESEARCH LABORATORIES RAD CHEM (A USERS MANUAL) (U), 139 P
(U)

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11619

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copy: 1 id: 45345-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 11632
ADNO: 510457L
AUTH: DOGLIANI H.O. ; BAILEY W.F.
CLSS: SRD 1
CCDE: GEO
CORP: AIR FORCE/WEAPONS LAB (KIRTLAND AFB-NM)
DATE: 7007
DESC: Cross Sections x-ray L1
DESC: Radiation Transport x-ray L1
REPN: AFWL TR 70 47
SUJO: 9-640-000 ; 9-840-000
TEMP: 77704
TITL: GEO-AN OPACITY PROGRAM (U), 64 P (SRD)
TREE: 980

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11632

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copy: 1 id: 45351-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 11657
AUTH: MERTZ R.L. ; LARSON A.V. ; RETTBERG R. ; WENAAS E.P.
CLSS: SRD
CONN: F 29601 70 C 0029
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA)
DATE: 7012
DESC: THEORY EMP IEMP IONIZING RADIATION COUPLING THROUGH PROTRUSIONS INTO
LF AND LSB
DESC: Nuclear Weapon Effects structures hard launch sites materials L1
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1 BURIED

EXPOSED

DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio
microwave systems L1 ANTENNA PROTURSIONS

EMPF: 388

REPN: GULF RT 11017

SUJO: 3-116-200 ; 3-132-000 ; 3-231-000

SYST: MINUTEMAN LAUNCH FACILITY

TEMP: 77638

TITL: NUCLEAR ENHANCEMENT OF EMP COUPLING (U), 89 P., (SRD)

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11657

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copy: 1 id: 45363-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 11759

AUTH: FLANAGAN T.M. ; HARRITY J.W.

CLSS: U

CORP: GULF GENERAL ATOMIC (SAN DIEGO-CA)

DATE: 7004

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 CAPACITORS SIMULATION
(LINAC)

DESC: EXPERIMENTAL

REPN: GA 10002

SUJO: 3-229-000

TITL: STUDY OF EFFECTS OF IONIZING RADIATION IN CAPACITORS, FINAL REPORT
(U), CIRCA 40 P, (U)

TREE: 370

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11759

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copy: 1 id: 45455-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 11762

ADNO: 511179L

AUTH: ENGLAND W.A. ; MEYER J.W.

CLSS: SRD

CCDE: DAFFER II

CONN: F30602 68 C 0371

CORP: HONEYWELL INCORPORATED (ST PETERSBURG-FL)

DATE: 7008

DESC: Nuclear Weapon Effects electronic subsystems computers memory L1
HARDNESS SPECIFICATION MEMORY CIRCUIT X RAY

REPN: RADC TR 70 111 V 2

SUJO: 3-212-000

TEMP: 77464

TITL: SPACEBORNE MASS MEMORY, VOLUME II, APPENDIX II RADIATION
ENVIRONMENTAL SPECIFICATIONS, APPENDIX III SYSTEM VIBRATION
SPECIFICATION AND TEST RESULTS, FINAL TECHNICAL REPORT (U), 29 P,
(SRD)

TREE: 440 ; 341

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11762

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copy: 1 id: 45458-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 11788

ADNO: 510580

AUTH: BOCZAR P.G. ; CIFERSKY J.M. ; SPALL E.J.

CLSS: SRD

CONN: FO4701 68 C 0254

CORP: INTERNATIONAL BUSINESS MACHINES CORPORATION (OWEGO NY)

DATE: 7006

DESC: NUCLEAR RADIATION EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic subsystems computers memory L1

DESC: Nuclear Weapon Effects electronic pieceparts measuring devices

sensors detectors L1 TIMER RADIATION DETECTOR

REPN: CD3261 797

SUJO: 3-212-000 ; 3-224-000

TEMP: 77271

TITL: ADVANCED HARDENED GUIDANCE COMPUTER/FEASIBILITY DEMONSTRATION MODEL,
FINAL REPORT, VOLUME 4 (U), 254 P, (SRD)

TREE: 342

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11788

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copy: 1 id: 45474-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 11879

AUTH: CHANG J. ; COOPER G.

CLSS: S 1

CCDE: COOCHA

CORP: UNIVERSITY OF CALIFORNIA (LIVERMORE CA)

DATE: 7010

DESC: THEORY

DESC: Plasma Physics MHD fusion L1

REPN: UCRL 50953

SUJO: 9-500-000

TEMP: 77304

TITL: COOCHA. A STUDY OF RADIATION, ION AND PLASMA INTERACTIONS (U), 26
P., (S)

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11879

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copy: 1 id: 45537-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 11883

ADNO: 873079L

AUTH: VOLET K. ; ZIRKIND P.

CLSS: U

CCDE: TROLL

CORP: ARMY PICATINNY ARSENAL (DOVER NJ)

DATE: 7008

DESC: Radiation Transport x-ray L5 BB FLUX

DESC: CODE

DESC: Nuclear Weapon Environment X-ray Output energy spectrum L5 BB

TEMP-TO-FLUX

REPN: TECH. MEMO 1965

SUJO: 1-620-000 ; 9-640-000

TITL: TROLL A PROGRAM TO GENERATE PHOTON AND ENERGY FLUXES OF BLACKBODY
RADIATORS AT CRITICAL MASS TEMPERATURES (U), 51 P., (U)

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copy: 1 id: 45541-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 11885

ADNO: 715422

AUTH: MORRIS E.E.

CLSS: U

CONN: DAHC 20 70 0203

CORP: UNIVERSITY OF ILLINOIS (URBANA ILL)

DATE: 7009

DESC: THEORY

DESC: Cross Sections gamma L1 STRUCTURES

REPN: NRSS 14

SUJO: 9-830-000

TITL: STUDY OF THE PENETRATION OF GAMMA RADIATION THROUGH THIN SLABS
ORIENTED AT RIGHT ANGLES TO EACH OTHER (U), 125 P., (U)

TREE: 411

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 11924
AUTH: KENYON V.L.
CLSS: SRD 1
CORP: NAVAL ORDNANCE LAB (SILVER SPRING, MD)
DATE: 7011
DESC: EXPERIMENTAL SIMULATION THEORY
DESC: Nuclear Weapon Effects electronic subsystems computers memory L1
TREE INTERNAL EMP
EMPF: 393
REPN: NOLTR 70 175
SHOT: HUDSON SEAL ; MINUTE STEAK
TSHO: UG CONTAINED
SUJO: 3-212-000
TEMP: 77575
TTTL: TRANSIENT RADIATION EFFECTS ON MAGNETIC DEVICES II (U), 124 P.,
(SRD)

TREE: 343

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 11929
AUTH: MURFIN W.B. ; BARTON G.V. ; MIDDLETON J.N. ; LEONARD C.M.
CLSS: SRD 1 CNWDI
CORP: SANDIA LABS (ALBUQUERQUE NM ; LIVERMORE CA)
DATE: 7011
DESC: Nuclear Weapon Effects ordnance bombs mines warheads L1
DESC: Nuclear weapon test yield L1
DESC: SPARTAN TABULAR
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1
DESC: Nuclear Weapon Effects reentry systems RV L1 XRAY NEUTRON NUCLEAR
RADIATION

REPN: SC RR 70 653

SUJO: 1-120-000 ; 1-620-000 ; 3-113-000 ; 3-161-000 ; 4-835-000

TEMP: 77230

TTTL: REENTRY VEHICLE THREAT MODELS FOR X-RAY AND NEUTRON EFFECTS (U), 105
P., (SRD CNWDI)

TREE: 396

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 11990
ADNO: 512641
AUTH: LEVERETT R.R. ; KOENIG J.A. ; KLINE R.W.
CLSS: SRD
CORP: AIR FORCE WEAPONS LAB (KIRTLAND AFB NM)
DATE: 7010
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L5
DESC: Nuclear Weapon Effects flight systems airplanes L1 THERMAL BLAST
NUCLEAR RADIATION
DESC: TABULAR
REPN: AFWL TR 70 7
SUJO: 3-111-000 ; 3-312-100
TEMP: 77377
TITL: PRELIMINARY NUCLEAR VULNERABILITY AND THREAT ANALYSIS OF THE
ADVANCED MANNED STRATEGIC AIRCRAFT SYSTEM (U), 38 P., (SRD)

TREE: 398

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 12000
ADNO: 510950
AUTH: SACCENTI J.C.
CLSS: SRD 1
CORP: ARMY BALLISTIC RESEARCH LABS (ABERDEEN PROVING GROUND MD)
DATE: 7007
DESC: test instruments hardened instruments L1
DESC: EXPERIMENTAL TABULAR
DESC: test instruments nuclear radiation neutron L1
REPN: MEMO REPT. NO. 2046
SUJO: 4-342-000 ; 4-360-000
TEMP: 77349
TITL: HARDENING OF NEUTRON AND GAMMA DOSIMETER SYSTEMS (U), 27 P., (SRD)
TREE: 364

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12000

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copy: 1 id: 45637-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 12048
ADNO: C954024
CLSS: SRD 1
CONN: DAHC 60 69 C 0102
CORP: MARTIN MARIETTA CORP
DATE: 7003

DESC: FRATRICIDE SIMULATION EXPERIMENTAL SPRINT TABULAR
DESC: Nuclear Weapon Effects ordnance propellants solid L1
DESC: Nuclear Weapon Effects missile systems ABM L1 XRAY DUST NUCLEAR
RADIATION BLAST EMP
EMPF: 362
REPN: OR 10,465
SUJO: 3-112-200 ; 3-164-000
SYST: SPRINT MISSILE
TEMP: 77947
TTTL: ADVANCED INTERCEPTOR VULNERABILITY STUDY, FINAL REPORT, VOL. 1, (U),
CA. 200 P., (SRD)

TREE: 392

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12048

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copy: 1 id: 45669-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 12049

ADNO: C953933

CLSS: SRD 1

CORP: MARTIN MARIETTA CORP

DATE: 7003

DESC: Nuclear Weapon Effects missile systems ABM L1 XRAY NUCLEAR RADIATION
EMP DUST THERMAL

DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L1

DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1

DESC: SIMULATION THEORY EXPERIMENTAL

DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1

DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1

DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L1

EMPF: 362

REPN: OR 10,465

SUJO: 1-110-000 ; 1-120-000 ; 1-610-000 ; 1-620-000 ; 1-740-000 ;
3-112-200

SYST: SPRINT MISSILE

TEMP: 77948

TTTL: ADVANCED INTERCEPTOR VULNERABILITY STUDY, FINAL REPORT, VOL.
2-APPENDICES (U), CA. 200 P., (SRD)

TREE: 392

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copy: 1 id: 45670-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 12067-323
AUTH: HUDSON C.I.
CLSS: SRD 1 CNWDI
CORP: UNIVERSITY OF CALIFORNIA-LAWRENCE RADIATION LAB
DATE: 6909
DESC: Nuclear weapon test yield L1
DESC: TABULAR
SUJO: 4-835-000
SYMJ: WITH TACTICAL NUCLEAR WEAPONS SYMPOSIUM-PROCEEDINGS
TITL: CLASSIFIED TITLE,

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12067-323

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copy: 1 id: 45683-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 12128
AUTH: MARTIN T.H.
CLSS: U
CCDE: ZZ
CORP: SANDIA LABS (ALBUQUERQUE NM)
DATE: 6905
DESC: THEORY CODE
DESC: Simulation Facilities Techniques TREE L1
REPN: SC RR 69 241
SUJO: 4-272-000
TITL: COMPUTERIZED METHOD OF PREDICTING ELECTRON BEAM BREMSSTRAHLUNG
RADIATION WITH SPECIFIC APPLICATION TO HIGH VOLTAGE FLASH X-RAY
MACHINES (U), 41 P., (U)

TREE: 642

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copy: 1 id: 45731-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 12206
ADNO: 722249
AUTH: FLEMING R.W. ; SPENCER G.S. ; BANKS D.C.
CLSS: U
CORP: ARMY ENGINEER NUCLEAR CRATERING GROUP/LAWRENCE RADIATION LAB
(LIVERMORE CA)
DATE: 7012
DESC: Soil Rock Properties Equation of State Conductivity L1 SLOPE
STABILITY CLAY SHALE
REPN: NCG TR 15
SUJO: 6-300-000
TITL: EMPIRICAL STUDY OF BEHAVIOR OF CLAY SHALE SLOPES (U), 101 P., (U)

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copy: 1 id: 45779-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 12238

ADNO: 513696L

AUTH: STAGGS V. ; NORMAN G.

CLSS: SRD 1

CCDE: UNC SAM ; DOT ; ANISM

CORP: PHYSICS INTERNATIONAL CO (SAN LEANDRO CA)

DATE: 7007

DESC: Radiation Transport neutron L5

DESC: HARD ROCK

DESC: Nuclear Weapon Effects structures hard launch sites materials L1 MM

WING 5 NUCLEAR RADIATION

REPN: BC 122 1320

SUJO: 3-116-200 ; 9-650-000

TEMP: 79402

TITL: HARD ROCK SILO DEVELOPMENT. SURVIVABILITY/VULNERABILITY PROGRAM.
RADIATION TRANSPORT SUBTASK STATUTE AND SUMMARY REPORT (U), 91 P.,
(SRD).

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copy: 1 id: 45800-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 12247

ADNO: 515017

AUTH: MANUS D.J. ; HOFFMAN J.G.

CLSS: SRD 1

CONN: DAAG 39 69 C 0021

CORP: TEXAS INSTRUMENTS INC (DALLAS TEX)

DATE: 7012

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1

DESC: DESIGN

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1

REPN: 03 70 140 (SRD)

SUJO: 3-221-000 ; 3-222-000

TEMP: 79481

TITL: COMPATIBLE MATERIALS-PROCESS APPROACH TO FABRICATING LOW COST
RADIATION HARDENED SEMICONDUCTOR COMPONENTS (U), 47 P., (SRD)

TREE: 610

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copy: 1 id: 45808-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 12271
ADNO: 508541
AUTH: ROSEN S.L.
CLSS: SRD 1
CONN: F 04701 68 C 0035
CORP: AVCO GOVERNMENT PRODUCTS GROUP/AVSO SYSTEMS DIV (WILMINGTON MASS)
DATE: 6903
DESC: Nuclear Weapon Effects reentry systems RV L1 HEAT SHIELD MATERIALS
DESC: RADS III SHOCK ; EXPERIMENTAL
DESC: Nuclear Weapon Effects materials composites L1
DESC: Nuclear Weapon Effects materials plastics resins L1 QUARTZ PHENOLIC
REPN: AVSD 0094 69 RR VOL. 3; SAMSO TR 69 158 VOL. 3
SUJO: 3-113-000 ; 3-244-000 ; 3-249-000
TEMP: 79581
TITL: RADIATION DAMAGE STUDY PHASE III (RADS III), FINAL REPORT, VOL.
3-SHOCK DAMAGEEFFECTS IN ADVANCED REENTRY VEHICLE HEAT SHIELD
MATERIALS (U), 190 P., (SRD)

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copy: 1 id: 45825-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 12286
AUTH: LEOPARD F.O. ; COLLINS D.G. ; WELLS M.B.
CLSS: U
CCDE: AURORA
CONN: F 33657 70 C 0076
CORP: RADIATION RESEARCH ASSOCIATES INC. (FORT WORTH TEX)
DATE: 7008
DESC: Nuclear Weapon Phenomenology High-Altitude auroras L1
DESC: Radiation Transport x-ray L1
DESC: THEORY
REPN: RRA T7012
SUJO: 2-215-000 ; 9-640-000
TITL: MONTE CARLO CODES TO STUDY THE TRANSPORT OF X-RAYS AND FLUORESCENT
LIGHT IN THE ATMOSPHERE (U), 82 P., (U)
TREE: 980

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copy: 1 id: 45835-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 12306
ADNO: 509527
AUTH: DOLINSKY A.A.
CLSS: SRD 1
CONN: AF 04 (701)68 C 0035
CORP: AVCO GOVERNMENT PRODUCTS GROUP (WILMINGTON MASS)
DATE: 6903
DESC: Nuclear Weapon Effects reentry systems RV L1 X RAY MATERIALS FOR RVS
DESC: equation of state heat of vaporization thermal conductivity opacity
L1 RV MATERIALS
DESC: Nuclear Weapon Effects materials plastics resins L1 AVCOAT TWSP
DESC: Nuclear Weapon Effects materials metals alloys L1 AL
DESC: RAD III SIMULATION (FLYER PLATE) ; THEORY EXPERIMENTAL
REPN: AVMSD 0094 69 RR VOL. 6 BK. 1 ; SAMSO TR 69 158 VOL. 6 BK. 1
SUJO: 3-113-000 ; 3-243-000 ; 3-244-000 ; 9-710-000
TEMP: 79580
TITL: RADIATION DAMAGE STUDY--PHASE 3 (RADS III), FINAL REPORT, VOL.
UNCERTAINTIES IN CRITICAL MATERIAL PROPERTIES AND THEIR EFFECTS ON V
AND H PREDICTIONS BOOK ONE OF TWO BOOKS (U), 122 P., (SRD)

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12306
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copy: 1 id: 45850-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 12400
ADNO: 851492
AUTH: BUDD E. ; CLARY E.M.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO CA)
DATE: 6905
DESC: BIBLIOGRAPHY
DESC: Nuclear Weapon Effects on plants ionizing radiation L1
REPN: NRDL 69 1
SUJO: 3-332-000
TITL: INDEX TO NAVAL RADIOLOGICAL DEFENSE LABORATORY TECHNICAL
PUBLICATIONS (U), 110P., (U)

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copy: 1 id: 45910-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 12500
CLSS: U

CORP: NATIONAL RESEARCH COUNCIL
DATE: 7004
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1
DESC: EXPERIMENTAL THEORY SUMMARY
DESC: Cross Sections neutron L1 CONCRETE
DESC: Nuclear RDT&E Research Program Descriptions biomedical L1
DESC: Cross Sections gamma L1 CONCRETE
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L5
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L1 HAZARDS
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L5
SUJO: 1-110-000 ; 1-710-000 ; 3-312-210 ; 4-140-000 ; 4-150-000 ;
9-820-000 ; 9-830-000
TITL: NOTES OF 31ST MEETING OF AD HOC SUBCOMMITTEE ON RADIATION SHIELDING
(U), 19 P., (U)
TREE: 411 ; 412

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copy: 1 id: 46048-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 12500-AI
AUTH: FRENCH
CLSS: U
CORP: RADIATION RESEARCH ASSOCIATES, INC. (FORT WORTH TEX)
DATE: 7004
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L5
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L5
DESC: TABULAR
DESC: Cross Sections gamma L5
DESC: RF EMP shielding protection L5 CONCRETE
REPN: RRA N707
SUJO: 1-110-000 ; 1-710-000 ; 9-810-000 ; 9-830-000
SYMJ: TOGETHER WITH NOTES OF 31ST MEETING OF AD HOC SUBCOMMITTEE ON
RADIATION SHIELDING
TITL: FREE-FIELD INITIAL RADIATION EXPOSURES (U), 14 P., (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 12500-AV
AUTH: FAW R.E.
CLSS: U
CONN: DAHC 20 67 C 0196
CORP: KANSAS STATE UNIVERSITY
DATE: 7004
DESC: SIMULATION (ISOTOPE FIELD) ; EXPERIMENTAL
DESC: Cross Sections gamma L1 HOUSE SHIELDING OF FALLOUT
SUJO: 9-830-000
SYMJ: TOGETHER WITH NOTES OF 31ST MEETING OF AD HOC SUBCOMMITTEE ON
RADIATION SHIELDING
TITL: PROTECTION FACTORS IN TYPICAL AMERICAN HOUSES (ABSTRACT OF KANSAS
ENGINEERINGEXPERIMENT STATION SPECIAL REPORT 84, 30 NOV. 1969) (U),
20 P., (U)

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copy: 1 id: 46050-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 12632
AUTH: TARKA J.E.
CLSS: U
CORP: GENERAL ELECTRIC (VALLEY FORGE PENN)
DATE: 6911
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: SIMULATION (FLASH X RAY) XRAYS BURNOUT DEGRADATION PASSIVATION
FAULTS ; EXPERIMENTAL
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L1
REPN: 69 SD 323
SUJO: 3-221-000 ; 4-170-000
TITL: MECHANISMS OF RADIATION INITIATED SEMICONDUCTOR DEVICE FAILURES, (A
TREATISE IN SEMICONDUCTOR SURVIVABILITY) (U), 223 P., (U)
TREE: 200 ; 310

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 12649
AUTH: LIPSKA A.E.
CLSS: U
CONN: DAHC 20 67 C 0149
CORP: NAVAL RADIOLOGICAL DEFENSE LAB (SAN FRANCISCO CA)
DATE: 6905

DESC: EXPERIMENTAL
DESC: ignition flammability ablation L1
REPN: NRDL TR 69
SUJO: 9-730-000
TITL: SYNERGISTIC EFFECT OF BENZHYDRYLATION-IODINATION ON THE FLAMMABILITY
OF ALPHA-CELLULOSE (U), 30 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 12677
ADNO: 729849
AUTH: FLEMING R.W. ; SPENCER G.S. ; BANKS D.C.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7012
DESC: EXPERIMENTAL
DESC: Geology L1
REPN: NCG TR 15
SUJO: 6-700-000
TITL: EMPIRICAL STUDY OF BEHAVIOR OF CLAY SHALE SLOPES (U), 305 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 12847
ADNO: 503814
CLSS: SRD 1
CONN: F 044694 C 0105
CORP: RALPH M. PARSONS CO. (LOS ANGELES, CA.)
DATE: 6907
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L5 P 12
DESC: Nuclear Weapon Effects structures hard launch sites materials L5
CLOSURE SPECIFICATIONS NUCLEAR RADIATION
DESC: TABULAR
DESC: Nuclear Weapon Environment Initial Gamma energy spectrum L5 P. 7
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L5 P 10
REPN: TECH. REPT. 4171 1 VOL. 8 ; SAMSO TR 69 213 VOL. 8
SOCE: MACE
SUJO: 1-120-000 ; 1-620-000 ; 1-720-000 ; 3-116-200
TEMP: A0252
TITL: CLOSURE ANALYSIS AND TEST STUDY, VOL. 8-CRITERIA (U), 21 P., (SRD)

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copy: 1 id: 46386-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13129-044
AUTH: GRANT G.A.
CLSS: C
DATE: 7005
DESC: Nuclear RDT&E Research Program Descriptions biomedical L1
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
SUJO: 3-312-100 ; 4-150-000
SYMJ: BOUND IN MINUTES OF FOURTH MEETING OF PANEL N-5 (NUCLEAR EFFECTS ON
PERSONNEL)
TITL: GUIDE ON CHEMOPROPHYLLAXIS PROGRAMME FOR SUBGROUP N (U), 5 P., (C)

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copy: 1 id: 46647-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13129-068
CLSS: U
DATE: 7005
DESC: test instruments nuclear radiation dosimeters radiacs L1
SUJO: 4-346-000
SYMJ: BOUND IN MINUTES OF FOURTH MEETING OF PANEL N-5 (NUCLEAR EFFECTS ON
PERSONNEL)
TITL: AUSTRALIAN RADIAC REQUIREMENTS POSITION PAPER ITEMS FOR COMMENT BY
THE WORKING GROUP ON RADIAC REQUIREMENTS (EXTRACT) (U), 5 P., (C)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13129-083
AUTH: STOLZ H.S.
CLSS: C
DATE: 7005
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
SUJO: 3-312-100
SYMJ: BOUND IN MINUTES OF FOURTH MEETING OF PANEL N-5 (NUCLEAR EFFECTS ON
PERSONNEL)
TITL: INCAPACITATION/PERFORMANCE DECREMENT PROGRAM (U), 13 P., (C)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 13129-100

AUTH: EDMONDSON P.W. ; BATCHELOR A.L.

CLSS: C

DATE: 7005

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1

SUJO: 3-312-100

SYMJ: BOUND IN MINUTES OF FOURTH MEETING OF PANEL N-5 (NUCLEAR EFFECTS ON PERSONNEL

TITL: RESPONSE TO MANSIZED ANIMALS TO FISSION NEUTRON AND TO GAMMA RAYS (U), 131 P., (C)

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13129-100

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copy: 1 id: 46653-1001 library: DOCUMENT price: \$.00

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created: 12/27/1991 type: REPORT permanent

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INUM: 13131

ABS: The compilation of excerpts is primarily intended to identify the military operational reference material published by armed services and other Canadian government agencies which relate to nuclear radiation exposure guides and contamination control levels. No attempt has been made to list all the service sponsored or government agency publications as a number of references would contain duplicate material and some would not relate directly to military peacetime or wartime operations. Some of the excerpts from the military manuals have not been revised since 1959 due to the integration of the Canadian military forces. At present a number of manuals are being revised and it is hoped that the recommendations from panel n-5, subgroup n, TTCP, and other committees will lead to more uniform guides in the armed services.

ABS: The excerpts taken from each manual are not intended to cover all the data of interest in the document. They are designed to provide the basic pertinent information required for a comparative analysis and to identify the document. It should also be noted that some of the manuals are not now obtainable and will not be reprinted until updated and revised.

CLSS: C

CORP: DEFENCE RESEARCH ESTABLISHMENT OTTAWA

DATE: 6900

DESC: Nuclear Weapon Effects on animals ionizing radiation L1 EXCERPTS FROM CANADIAN FORCES TRAINING MANUALS

DESC: SUMMARY

LA: CANADA

SUJO: 3-312-000
TEMP: A0505
TTTL: EXPOSURE GUIDES AND CONTAMINATION CONTROL LEVELS FOR NUCLEAR
RADIATION OPERATION (U), 91 P., (C)

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copy: 1 id: 46656-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 13427
AUTH: ERICKSON L.M. ; OAKLEY D.C.
CLSS: SRD 1 CNWDI
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7012
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1 X-RAY
GAMMA RAY INDUCED VOLTAGE CHANGES IEMP
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L9 FIG. 2
EMPF: 396
REPN: UCRL 50984
SHOT: HUDSON MOON; MINT LEAF ; MINUTE STEAK ; DIESEL TRAIN ; CYPRESS
TSHO: UG (CONTAINED)
SOCE: XXXXXXXXXX
SUJO: 1-620-000 ; 3-231-000
TEMP: A1039
TTTL: MEASUREMENT OF RADIATION-INDUCED PHENOMENA IN DETONATOR CABLES
EXPOSED IN HUDSON MOON (U), 55 P., (SRD/CNWDI)
TREE: 397 ; 390

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copy: 1 id: 46884-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13568
ADNO: 394930
AUTH: KINGSLAND R.H. ; HONNOLD V.R. ; LOVELAND R.D. ; RUSSELL R.L. ;
SKAVLAND R.L.
CLSS: SRD 1
CONN: F 04701 68 C 0145
CORP: HUGHES AIRCRAFT CO. (FULLERTON, CA.)
DATE: 6901
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 TRANSFORMERS INSULATORS
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TREE X-RAY

DESC: Nuclear Weapon Effects space systems L1
DESC: Nuclear Weapon Effects electronic pieceparts solar cells L1
DESC: Nuclear Weapon Effects electrical mechanical power generation L1
POWER GENERATORS SPACEBORNE ISOTOPIC
REPN: FR 69 10 71 ; SAMSO TR 69 7 VOL. 1 PT. 1
SUJO: 3-114-000 ; 3-221-000 ; 3-223-000 ; 3-229-000 ; 3-232-000
SYST: VELA ; MOL
TEMP: A1394
TITL: RADIATION EFFECTS ON SPACE POWER SUBSYSTEMS (SYSTEM VULNERABILITY
ANALYSIS), VOL. 1, PT. 1 (U), 668 P., (SRD)
TREE: 393

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13568
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copy: 1 id: 47062-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 13569
ADNO: 394948
AUTH: KINGSLAND R.H. ; CARTER D.B. ; HONNOLD V.R. ; LOVELAND R.D. ;
RUSSELL R.L. ; SMITH E.C.

CLSS: SRD 1
CONN: F 04701 68 C 0145
CORP: HUGHES AIRCRAFT CO. (FULLERTON, CA.)
DATE: 6901
DESC: SIMULATION (FLASH X-RAY) ; THEORY EXPERIMENTAL
DESC: Cross Sections x-ray L5
DESC: Nuclear Weapon Effects materials metals alloys L5 AL IRON X-RAY
DESC: Nuclear Weapon Effects electronic pieceparts solar cells L1 TREE
X-RAY

REPN: FR 69 10 70 ; SAMSO TR 69 7 VOL. 2 PT. 2
SUJO: 3-223-000 ; 3-243-000 ; 9-840-000
TEMP: A1395
TITL: RADIATION EFFECTS ON SPACE POWER SUBSYSTEMS (HANDBOOK), VOL. 2, PT.
2 (U), 115 P., (SRD)
TREE: 393 ; 362

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13569
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copy: 1 id: 47063-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 13593
ADNO: 395788L
AUTH: SPANGLER P.S.
CLSS: SRD 1
CONN: F 04 694 67 C 0098
CORP: PHILCO-FORD CORP., AERONUTRONIC DIV. (NEWPORT BEACH, CA.)

DATE: 6901
DESC: Cross Sections neutron L1
DESC: Simulation Facilities Techniques x-ray effects L1
DESC: THEORY
DESC: Cross Sections x-ray L1 CONCRETE SILO MATERIALS IRON
DESC: Nuclear Weapon Effects structures hard launch sites materials L1
X-RAY NEUTRON HEATING
REPN: SAMSO TR 69 29
SUJO: 3-116-200 ; 4-231-000 ; 9-820-000 ; 9-840-000
TEMP: A1423
TITL: RADIATION INDUCED STRESS IN CONCRETE (U), 240 P., (SRD)

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copy: 1 id: 47081-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13601
ADNO: 500271L
AUTH: STOKES J.R. ; INGRAM R.D.
CLSS: S 3
CONN: DAAE 07 67 C 5065
CORP: SYSTEMS TECHNOLOGY CORP. (DALLAS, TEX.)
DATE: 6903
DESC: Cross Sections gamma L1 POLYETHYLENE STEEL AL RUBBER OIL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1

INSIDE HOWITZER

DESC: Cross Sections neutron L1 INSIDE SELF-PROPELLED HOWITZER
REPN: STC T5 1
SUJO: 3-312-100 ; 9-820-000 ; 9-830-000
SYST: XM 179 SELF-PROPELLED HOWITZER
TEMP: A1432
TITL: RADIOLOGICAL ARMOR PROGRAM, A STUDY OF RADIOLOGICAL SHIELDING FOR
PERSONNEL CARRIERS AND SPECIAL PURPOSE MILITARY VEHICLES (U), 100
P., (S)

TREE: 411 ; 412

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13601

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copy: 1 id: 47088-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13606
ADNO: 503515
AUTH: HOLMES-SIEDLE A.G. ; ZAININGER K.H.
CLSS: SRD 1
CONN: F 33615 67 C 1140
CORP: RCA LABS. (PRINCETON, NJ.)

DATE: 6908
DESC: TABULAR SUMMARY
DESC: Nuclear Weapon Effects reentry systems RV L1 TREE ELECTRONICS
DESC: Nuclear Weapon Effects electronic subsystems computers memory L1
REPN: AFAL TR 69 185 SUPPL. 1
SUJO: 3-113-000 ; 3-212-000
TEMP: A1437
TITL: STABILITY AND RADIATION EFFECTS IN COMPLEMENTARY MOS TRANSISTORS,
SUPPLEMENT 1; VULNERABILITY OF CMOS LOGIC ARRAY (U), 15 P., (SRD)
TREE: 325

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13606
.endblock

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copy: 1 id: 47096-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 13610
ADNO: 505272
AUTH: ORNDORFF R.M. ; RUDL C.J.
CLSS: S 3
CONN: F 04701 69 C 0149
CORP: HUGHES AIRCRAFT CO., RADIATION EFFECTS RESEARCH DEPT. (FULLERTON,
CA.)

DATE: 6910
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1
TREE
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
REPN: FR 69 10 1168 ; SAMSO TR 69 334
SUJO: 3-222-000 ; 3-225-000
TEMP: A1444
TITL: HARDENED FLIP-FLOP MEMORY DESIGN, DEVELOPMENT AND VERIFICATION (U),
108 P., (S)
TREE: 343 ; 320

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13610
.endblock

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copy: 1 id: 47100-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 13616
ADNO: 505037L
AUTH: BLINCOW D.W.
CLSS: S 3
CONN: F 30602 67 C 0304
CORP: TYCO LABORATORIES, INC., GENERAL NUCLEONICS DIV. (POMONA, CA.)
DATE: 6909
REPN: D70 03268 ; ER 719 ; RADC TR 69 122

TEMP: A1450
TITL: GAMMA RADIATION INTRUSION DETECTION EQUIPMENT (U), 196 P., (S)

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13616

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copy: 1 id: 47102-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 13646

AUTH: PENICK C.A.

CLSS: U

CCDE: CURSEPS/NIES

CONN: F 29601 69 C 0093

CORP: DIKEWOOD CORP. (ALBUQUERQUE, NM)

DATE: 7006

DESC: THEORY TABULAR

DESC: Radiation Transport neutron L1 AIR CURRENTS

REPN: DC TN 2099 25

SUJO: 9-650-000

TITL: CURVE FITS TO OUTPUT FROM PROGRAMS NIES AND DNIES (U), 65 P., (U)

TREE: 970

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13646

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copy: 1 id: 47119-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 13846

ADNO: 855880

AUTH: CUSHING D.L. ; MONG A.C. ; ROSENBERG C. ; UNWIN A.M.

CLSS: U

CCDE: TREC

CONN: F 29601 68 C 0087

CORP: BOEING CO., AEROSPACE GROUP (SEATTLE, WASH.)

DATE: 6906

DESC: NEUTRON GAMMA TRANSISTOR RANKING TREC TREE PERMANENT DAMAGE ;
BIBLIOGRAPHY SURVEY

DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L1

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L5

REPN: AFSWC TR 69 7 VOL. 1

SUJO: 3-221-000 ; 4-170-000

TITL: TRANSISTOR RADIATION EFFECTS COMPILATION (TREC), VOL. 1, USER'S
GUIDE AND SOURCE BIBLIOGRAPHY (U), 92 P., (U)

TREE: 310

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13846

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copy: 1 id: 47285-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 13912

ADNO: 849481L

AUTH: WOODRUFF W.R.

CLSS: U

CONN: AF 04 (694) 270

CORP: HERCULES, INC., CHEMICAL PROPULSION DIV. (MAGNA, UTAH)

DATE: 6903

DESC: NUCLEAR RADIATION PERMANENT DAMAGE

DESC: Nuclear Weapon Effects ordnance propellants solid L1 CHY (MM II
STAGE III)

REPN: AF 04 (694) 270

SHOT: MILK SHAKE ; NATIVE MIST

TSHO: UG-CONTAINED

SUJO: 3-164-000

SYST: MINUTEMAN

TITL: RADIATION DAMAGE EVALUATION WING VI MINUTEMAN ROCKET MOTOR MTO 852
35 (U), 22 P., (U)

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copy: 1 id: 47328-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 13936

ADNO: 509651

AUTH: MCINGVALE P.H.

CLSS: S 3

CCDE: CIRCUS

CORP: ARMY MISSILE COMMAND (REDSTONE ARSENAL, ALA.)

DATE: 6912

DESC: SIMULATION (PULSE REACTOR) ; THEORY EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L1 TREE

DESC: Nuclear Weapon Effects missile systems tactical L1 ELECTRONICS

DESC: Nuclear Weapon Effects electronic subsystems guidance control L1

REPN: D70 04783 ; 43582 ; RG TR 69 20

SUJO: 3-112-300 ; 3-211-000 ; 3-213-000 ; 3-221-000

SYST: LANCE

TEMP: A1474

TITL: LANCE GUIDANCE, CONTROL AND CHECKOUT ELECTRONIC SYSTEMS NUCLEAR
RADIATION VULNERABILITY STUDY, VOL. 2-PULSE RATIO MODULATION
DIRECTIONAL CONTROL SYSTEM (U), 107 P., (S)

TREE: 342 ; 392

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13936
.endblock

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copy: 1 id: 47350-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 13937
ADNO: 509652
AUTH: MCINGVALE P.H.
CLSS: S 3
CCDE: CIRCUS
CORP: ARMY MISSILE COMMAND (REDSTONE ARSENAL, ALA.)
DATE: 6912
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
DESC: Nuclear Weapon Effects electronic subsystems guidance control L1
DESC: SIMULATION (REACTOR) ; THEORY EXPERIMENTAL CODE
DESC: Nuclear Weapon Effects missile systems tactical L1 TREE ELECTRONICS
REPN: D70 04782 ; 43581 ; RG TR 69 20
SUJO: 3-112-300 ; 3-211-000 ; 3-213-000
SYST: LANCE
TEMP: A1473
TITL: LANCE GUIDANCE, CONTROL, AND CHECKOUT ELECTRONIC SYSTEMS NUCLEAR
RADIATION VULNERABILITY STUDY, VOL. 5-VELOCITY CONTROL AND PRESET
ELECTRONICS (U), 121 P., (S)
TREE: 342

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13937
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copy: 1 id: 47351-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 13938
ADNO: 509710
AUTH: DOWNING R.G. ; CARTER J.R. ; MCDOWELL C.N. ; OKEEFE J.D. ; SCOTT
R.E. ; VAN ATTA W.K.
CLSS: SRD 1
CORP: HELIOTEK (SYLMAR, CA.)
DATE: 7005
DESC: SIMULATION (E-BEAM, LASER, NEUTRON SOURCE) ; EXPERIMENTAL
DESC: Directed Energy Weapons Lasers Effects Solar cells L1
DESC: Nuclear Weapon Effects electronic pieceparts solar cells L1 X RAY
TREE
REPN: D70 04785 ; 43580 ; AFAPL TR 70 35 PT. 2
SUJO: 3-223-000 ; 3-613-130
TEMP: A1475
TITL: LITHIUM DOPED HARDENED SOLAR CELL OPTIMIZATION, PT. 2-SOLAR CELL
RADIATION STUDIES (U), 106 P., (SRD)
TREE: 362

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13938

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copy: 1 id: 47352-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 13949

AUTH: HORNQVIST N.

CLSS: U

CORP: RESEARCH INSTITUTE OF NATIONAL DEFENSE (STOCKHOLM, SWEDEN)

DATE: 6910

DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1

DESC: Nuclear Weapon Environment Airblast static overpressure ARRIVAL

TIME.L1

DESC: THEORY

LA: SWEDEN

REPN: FOA 4 RAPPORT 0 4402 23 (25)

TSHO: LOW-ALT

SUJO: 2-110-000 ; 2-611-000

TITL: THERMAL RADIATION FRONT FROM A POINT EXPLOSIONS (U), 21 P., (U)

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13949

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copy: 1 id: 47360-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 13952

AUTH: HORNQVIST N.

CLSS: U

CORP: RESEARCH INSTITUTE OF NATIONAL DEFENSE (STOCKHOLM, SWEDEN)

DATE: 7001

DESC: equation of state heat of vaporization thermal conductivity opacity

L1

DESC: Radiation Transport thermal L1

DESC: THEORY

LA: SWEDEN

REPN: FOA 4 RAPPORT C 4411 25

SUJO: 9-610-000 ; 9-710-000

TITL: PROPAGATION OF THERMAL RADIATION FRONTS FROM AN EXPONENTIAL ENERGY
SOURCE (U, 20 P., (U)

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13952

.endblock

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copy: 1 id: 47363-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 13966
ADNO: 509351L
AUTH: BAUER E. ; WOLFHARD H.G.
CLSS: SRD 1
CONN: DAHC 15 67 C 0011
CORP: INSTITUTE FOR DEFENSE ANALYSES (ARLINGTON, VA.)
DATE: 7003
DESC: THEORY TABULAR
DESC: Nuclear Weapon Phenomenology High-Altitude induced airglow
fluorescence L5
DESC: Solid Mechanics L1
DESC: Nuclear Weapon Environment Infrared Output source strength total
intensity L5
REPN: D70 04475 ; N 710 (R)
TSHO: HI-ALT
SUJO: 1-310-000 ; 2-214-000 ; 9-200-000
TEMP: A1488 ; 71700
TITL: RADIATION FROM METAL OXIDES, A JOINT ARPA/NBS/IDA SYMPOSIUM, MARCH
6, 1970 (U), 128 P., (SRD)

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13966

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copy: 1 id: 47373-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13967
ADNO: 507894
AUTH: KAMINS M. ; STUCKER J.P.
CLSS: S 3
CONN: F 44620 67 C 0045
CORP: RAND CORP. (SANTA MONICA, CA.)
DATE: 7002
DESC: Nuclear Weapon Environment radiation decay gamma decay L1 LOCAL
FALLOUT
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1
MINUTEMAN SITES
DESC: SURFACE ; THEORY
DESC: Nuclear Warfare Strategic Survivability Security Safety L1
DESC: Nuclear Weapon Effects animals L5
DESC: Nuclear Warfare Postattack Recovery military L1
REPN: RM 6229 PR
TSHO: SURFACE ; MULTIPLE
SUJO: 2-223-420 ; 2-225-100 ; 3-310-000 ; 3-422-100 ; 3-441-000
SYST: MINUTEMAN
TEMP: A1485
TITL: ENDURING SURVIVAL OF STRATEGIC MISSILES-PROBLEMS AND PROSPECTS (U),
136 P., (S)

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13967

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copy: 1 id: 47374-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 14142
ADNO: 882385
AUTH: SEDORE S.R. ; SENTS J.R.
CLSS: U
CCDE: SCEPTRE (RADIATION EFFECTS CIRCUIT ANALYSIS)
CONN: F 29601 68 C 0117
CORP: IBM CORP., ELECTRONICS SYSTEMS CENTER (OWEGO, NY)
DATE: 7007
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1
DESC: THEORY
EFFT: TREE
EMPF: 330
REPN: AFWL TR 69 77 VOL. 2
SUJO: 3-219-000
TITL: SCEPTRE SUPPORT II, VOL. 2, REVISED MATHEMATICAL FORMULATION (U), 70
P., (U)
TREE: 330

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14142
.endblock
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copy: 1 id: 47541-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 14143
ADNO: 882384
AUTH: SEDORE S.R. ; SENTS J.R.
CLSS: U
CCDE: SCEPTRE (RADIATION EFFECTS CIRCUIT ANALYSIS)
CONN: F 29601 68 C 0117
CORP: IBM CORP., ELECTRONICS SYSTEMS CENTER (OWEGO, NY)
DATE: 7007
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1
DESC: CODE
EFFT: TREE
EMPF: 330
REPN: AFWL TR 69 77 VOL. 1
SUJO: 3-219-000
TITL: SCEPTRE SUPPORT II, VOL. 1, REVISED USER'S MANUAL (U), 162 P., (U)
TREE: 330

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14143
.endblock
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copy: 1 id: 47542-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 14221-011
AUTH: SCHMIDT P.F. ; ASHNER J.D.
CLSS: U
CORP: BELL TELEPHONE LABS. (ALLENTOWN, PA.)
DATE: 7012
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 IGFET BIPOLAR TRANSISTOR
DESC: SIMULATION (CO60, REACTOR) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 SI SION GOLD AND COPPER DIFFUSED CAPACITOR STRUCTURES
EFFT: NEUTRON ; GAMMA ; TREE
SUJO: 3-220-200 ; 3-221-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-17, NO. 6
TITL: RADIATION-INSENSITIVE SILICON OXYNITRIDE FILMS FOR USE IN SILICON
DEVICES; PT. 2 (U), 6 P., (U)
TREE: 310 ; 200

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14221-011

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copy: 1 id: 47620-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 14221-027
AUTH: MICHELLETTI F.B. ; ZAININGER K.H.
CLSS: U
CORP: RCA LABS. (PRINCETON, NJ.)
DATE: 7012
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
COS MOS 1C WITH AL203
DESC: SIMULATION (VAN DE GRAAFF) PERMANENT EFFECTS
EFFT: BETA ; TREE
SUJO: 3-222-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-17, NO. 6
TITL: PERMANENT RADIATION EFFECTS IN HARDENED A1 SUB 2 AND O SUB 3
INTEGRATED CIRCUITS (U), 6 P., (U)
TREE: 320

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14221-027

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copy: 1 id: 47622-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 14221-033
AUTH: POCH W.J. ; HOLMES-SIEDLE A.G.

CLSS: U
CORP: RCA ASTRO-ELECTRONICS DIV. (PRINCETON, NJ.)
DATE: 7012
DESC: SIMULATION (X-RAY) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1 CMOS LOGIC NETWORK
EFFT: TREE
SUJO: 3-219-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-17, NO. 6
TITL: LONG-TERM EFFECTS OF RADIATION ON COMPLEMENTARY MOS LOGIC NETWORKS
(U), 8 P., (U)
TREE: 325

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14221-033

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copy: 1 id: 47623-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14221-047
AUTH: LEE R.S.
CLSS: U
CORP: KANSAS STATE UNIVERSITY, DEPT. OF PHYSICS (MANHATTAN, KANSAS)
DATE: 7012
DESC: SIMULATION (X-RAY TUBE, LIGHT) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 HG-A1203-A1 CAPACITOR
EFFT: X-RAY ; TREE
SUJO: 3-229-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-17, NO. 6
TITL: RADIATION INDUCED CURRENTS ACROSS AL SUB 2 O SUB 3 FILMS (U), 5 P.,
(U)
TREE: 200

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14221-047

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copy: 1 id: 47625-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 14221-052
AUTH: BAUERLEIN R.
CLSS: U
CORP: SIEMENS AG, RESEARCH LABS. (ERLANGEN, GERMANY)
DATE: 7012
DESC: SIMULATION (ELECTRON GUN) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTOR
EFFT: BETA ; TREE
LA: W. GERMANY, NOT TRANSLATED

SUJO: 3-221-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-17, NO. 6
TITL: INVESTIGATION OF THE SURFACE IONIZATION EFFECT ON PLANAR SILICON
BIPOLAR TRANSISTORS AND THE IMPROVEMENT OF THE RESISTANCE TO
RADIATION BY AN IRRADIATION-ANNEALING TREATMENT (U), 17 P., (U)

TREE: 430

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14221-052

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copy: 1 id: 47626-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 14221-076

AUTH: HAMPEL D. ; PROST K.J.

CLSS: U

CORP: RCA CORP., ADVANCED COMMUNICATIONS LAB. (SOMMERVILLE, NJ.)

DATE: 7012

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTOR

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
12 BIT SHIFT REGISTER

DESC: SIMULATION (FLASH X-RAY)

EFFT: X-RAY ; TREE

SUJO: 3-221-000 ; 3-222-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-17, NO. 6

TITL: RADIATION HARDENED REGISTERS (U), 7 P., (U)

TREE: 341

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14221-076

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copy: 1 id: 47628-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14221-096

AUTH: COOPER J.A.

CLSS: U

DATE: 7012

DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1 MICROCIRCUITS

DESC: SIMULATION (CO60) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 MOS SYSTEM

EFFT: GAMMA ; TREE

SUJO: 3-219-000 ; 3-221-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-17, NO. 6

TITL: EFFECTS OF IONIZING RADIATION ON MONOLITHIC PMOS INVERTERS (U), 4
P., (U)

TREE: 325

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14221-096

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copy: 1 id: 47631-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14221-183

AUTH: CATES H.T. ; DARLING R.E. ; DAVIDSOHN U.S.

CLSS: U

CORP: MARTIN MARIETTA CORP. (ORLANDO, FL.) ; MOTOROLA SEMICONDUCTOR
PRODUCTS (PHOENIX, ARIZ.)

DATE: 7012

DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 BIPOLAR TRANSISTOR

EFFT: NEUTRON ; TREE

SUJO: 3-221-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-17, NO. 6

TITL: TECHNIQUE FOR OBTAINING RADIATION HARDENED SEMICONDUCTOR DEVICES BY
IRRADIATING WAFERS (U), 7 P., (U)

TREE: 430

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14221-183

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copy: 1 id: 47634-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14221-210

AUTH: VAN LINT V.A.J.

CLSS: U

CORP: RADIATION TECHNOLOGY (SAN DIEGO, CA.)

DATE: 7012

DESC: Nuclear Weapon Effects electrical mechanical cables wires L1 COAXIAL
CABLES

DESC: SIMULATION (PULSED REACTOR) ; THEORY EXPERIMENTAL

EFFT: NEUTRON ; GAMMA ; TREE

SUJO: 3-231-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-17, NO. 6

TITL: RADIATION-INDUCED CURRENTS IN COAXIAL CABLES (U), 7 P., (U)

TREE: 390

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14221-210

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copy: 1 id: 47635-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14221-222
AUTH: HALPIN J.J. ; WENZEL R.F.
CLSS: U
CORP: NAVAL RESEARCH LAB. (WASH., DC.)
DATE: 7012
DESC: Nuclear Weapon Effects materials ceramics optical L1 RUBY LASER
DESC: SIMULATION (CO60) ; EXPERIMENTAL
EFFT: GAMMA ; TREE
SUJO: 3-241-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-17, NO. 6
SYST: OPTICS TECHNOLOGY MODEL 120 LASER
TITL: NUCLEAR RADIATION DAMAGE TO RUBY LASERS (U), 3 P., (U)
TREE: 366

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14221-222

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copy: 1 id: 47636-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14221-227
AUTH: EERNISSE E.P. ; CHAFFIN R.J.
CLSS: U
CORP: SANDIA LABS. (ALBUQUERQUE, NM.)
DATE: 7012
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 DIODES (TRAPATT)
DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL
EFFT: NEUTRON ; TREE
SUJO: 3-221-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-17, NO. 6
TITL: DESIGN OF NEUTRON RADIATION TOLERANT HIGH EFFICIENCY MICROWAVE
AVALANCHE DIODE SOURCES (TRAPATT OSCILLATORS) (U), 3 P., (U)
TREE: 310 ; 430

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14221-227

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copy: 1 id: 47637-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14221-230
AUTH: MARCUS G.H. ; BRUEMMER H.P.
CLSS: U
CORP: ARMY ELECTRONICS COMMAND (FORT MONMOUTH, NJ.)
DATE: 7012
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 DIODES (GUNN)
DESC: SIMULATION (REACTOR PULSE) ; EXPERIMENTAL
EFFT: NEUTRON ; TREE

SUJO: 3-221-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-17, NO. 6
TITL: RADIATION DAMAGE IN GAAS GUNN DIODES (U), 5 P., (U)
TREE: 310

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14221-230

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copy: 1 id: 47638-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14221-239
AUTH: STANLEY A.G.
CLSS: U
CORP: MASSACHUSETTS INSTITUTE OF TECHNOLOGY, LINCOLN LAB. (LEXINGTON, MA.)
DATE: 7012
DESC: SIMULATION (VAN DE GRAAFF) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 LED
EFFT: BETA ; TREE
SUJO: 3-221-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-17, NO. 6
TITL: COMPARISON OF LIGHT EMITTING DIODES IN A SPACE RADIATION ENVIRONMENT
(U), 6 P., (U)
TREE: 310

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14221-239

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copy: 1 id: 47640-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14221-268
AUTH: KLEIN N. ; SASSE R.A.
CLSS: U
CORP: BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD.)
DATE: 7012
DESC: EXPERIMENTAL
DESC: test instruments nuclear radiation dosimeters radiacs L1 PULSED

SOURCE

EFFT: GAMMA ; TREE
SUJO: 4-346-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-17, NO. 6
TITL: RADIATION MEASUREMENTS BY CHEMICAL METHODS (U), 4 P., (U)
TREE: 655

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14221-268

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copy: 1 id: 47643-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14221-278
AUTH: HARRAH L.A.
CLSS: U
CORP: SANDIA LABS. (ALBUQUERQUE, NM.)
DATE: 7012
DESC: EXPERIMENTAL
DESC: test instruments nuclear radiation neutron L1 PLASTICS
EFFT: BETA ; TREE
SUJO: 4-342-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-17, NO. 6
TITL: PULSED ELECTRON BEAM ENERGY DEPOSITION PROFILES USING SOLID
RADIATION SENSITIVE PLASTICS (U), 6 P., (U)
TREE: 654

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14221-278

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copy: 1 id: 47644-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14221-284
AUTH: WALKER J.V.
CLSS: U
CORP: SANDIA LABS. (ALBUQUERQUE, NM.)
DATE: 7012
DESC: test instruments nuclear radiation dosimeters radiacs L1
DESC: SURVEY
EFFT: X-RAY ; BETA ; TREE
SUJO: 4-346-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-17, NO. 6
TITL: ELECTRON BEAM AND FLASH X-RAY DIAGNOSTICS (U), 11 P., (U)
TREE: 655 ; 654

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14221-380
AUTH: GOBEN C.A. ; GRAY D.L. ; HAN Y.P.
CLSS: U
CORP: UNIVERSITY OF MISSOURI (ROLLA ROLLA, MO.)
DATE: 7012
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L1

EFFT: NEUTRON ; TREE

SUJO: 3-221-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-17, NO. 6

TITL: NUCLEAR RADIATION ENHANCEMENT OF TRANSISTOR FORWARD GAIN AT HIGH
FREQUENCIES (U), 9 P., (U)

TREE: 310

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copy: 1 id: 47649-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14225

AUTH: MARTIN J.A. ; JONES J.L. ; OREHOTSKY R.S.

CLSS: U

CORP: MOLECULON RESEARCH CORP. (CAMBRIDGE, MA.)

DATE: 7003

DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL

DESC: test instruments nuclear radiation dosimeters radiacs L1

EFFT: GAMMA ; BETA

SUJO: 4-346-000

TITL: RELATIVE RESPONSE OF DOSIMETERS TO COBALT-60 AND 25 NSEC PULSED
ELECTRON IRRADIATIONS (U), 8 P., (U)

TREE: 654 ; 651

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copy: 1 id: 47653-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14263

AUTH: RAYMOND J.P. ; POCOCK D.N.

CLSS: U

CONN: DASA 01 70 C 0093

CORP: NORTHROP CORPORATE LABS. (HAWTHORNE, CA.)

DATE: 7000

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1

MOS-LSI STATIC AND DYNAMIC LOGIC CELLS

DESC: SIMULATION (FLASH X-RAY, LINAC, TRIGA) TREE ; EXPERIMENTAL

SUJO: 3-222-000

TITL: TRANSIENT IONIZING RADIATION EFFECTS IN MOS/LSI (U), 20 P., (U)

TREE: 325

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copy: 1 id: 47677-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14264
AUTH: HOLMES R.R. ; MITCHELL J.P. ; WILSEN D.K.
CLSS: U
CONN: DAHC 60 69 C 0008
CORP: BELL TELEPHONE LABS. (WHIPPANY, NJ)
DATE: 7010
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1
DESC: SIMULATION (ELECTRON GUN C060, PULSED 14 MEV NEUTRONS) TREE ; THEORY
EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 MOS DEVICES DIODES
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: Nuclear Weapon Effects materials coatings laminates L5 SION FILMS
SIO FILMS
SUJO: 3-219-000 ; 3-221-000 ; 3-222-000 ; 3-245-000
TITL: BALLISTIC MISSILE DEFENSE ADVANCED DEVELOPMENT PROGRAM. WEAPONS
EFFECTS STUDIES; VOL. 2, RADIATION EFFECTS ON INTERCEPTOR
ELECTRONICS (U), 134 P., (U)
TREE: 325 ; 392

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14265
AUTH: DONOVAN R.P. ; SIMONS M. ; MONTEITH L.K.
CLSS: U
CONN: NAS 1 8156
CORP: RESEARCH TRIANGLE INSTITUTE (RESEARCH TRIANGLE PARK, NC.C.)
DATE: 7005
DESC: SIMULATION (ELECTRONGUN, CO60) TREE ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 MOS CAPACITORS
REPN: NASA CR 1584
SUJO: 3-229-000
TITL: DEVELOPMENT OF RADIATION RESISTANT INSULATING LAYERS FOR PLANAR
SILICON TECHNOLOGY (U), 46 P., (U)
TREE: 430 ; 325

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14281
ADNO: 715140
AUTH: GRANNEMANN W.W. ; ALLEN R.C. JR. ; BOATWRIGHT L.T. ; BYATT W.J. ;
SOUTHWARD H.D. ; WING G.M. ; YU H.
CLSS: U
CCDE: AAAAAA DATA STORING + RETRIEVAL
CONN: N 00014 68 A 0158
CORP: UNIVERSITY OF NEW MEXICO, BUREAU OF ENGINEERING RESEARCH
(ALBUQUERQUE, NM)
DATE: 7009
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 GA ASP GAP GA AS DIODES SRC
DESC: Nuclear Weapon Effects materials ceramics optical L1 SI DIELECTRIC
MATERIALS
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 MIS CAPACITORS
DESC: SIMULATION (FLASH X-RAY, PULSED REACTOR) ; THEORY EXPERIMENTAL
EFFT: X-RAY ; NEUTRON ; TREE
REPN: EE 177 (70) ONR 005
SUJO: 3-221-000 ; 3-229-000 ; 3-241-000
TITL: RADIATION EFFECTS RESEARCH PROGRAM (U), 287 P., (U)
TREE: 642 ; 310

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14281

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copy: 1 id: 47694-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14293
ADNO: 715305
AUTH: CESENA R.A. ; FLANAGAN T.M. ; VAN LINT V.A.J.
CLSS: U
CONN: AF 19 (628) 5838
CORP: GULF GENERAL ATOMIC, INC., RADIATION EFFECTS PHYSICS BRANCH (SAN
DIEGO, CA.)
DATE: 7001
DESC: SIMULATION (LINAC) ; THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 GA AS NONCOHERENT AND LASER P-N
JUNCTION DIODES
EFFT: BETA ; TREE
REPN: GA 9865 ; AFCRL 70 0545
SUJO: 3-220-200 ; 3-221-000
TITL: OPTICAL STUDIES OF RADIATION DAMAGE PROCESSES (U), 120 P., (U)
TREE: 310 ; 200

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copy: 1 id: 47711-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14295

ADNO: 722059

AUTH: GRANNEMANN W.W. ; PHILLIPS D.H.

CLSS: U

CORP: UNIVERSITY OF NEW MEXICO, BUREAU OF ENGINEERING RESEARCH
(ALBUQUERQUE, NM)

DATE: 7012

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 GA ASP TRANSISTORS

DESC: THEORY

EFFT: NEUTRON ; GAMMA ; TREE

REPN: EE 179 (70) ONR 005

SUJO: 3-221-000

TITL: RADIATION-HARDENED GAASP MIS FIELD-EFFECT TRANSISTOR FEASIBILITY
STUDY (U), 68 P., (U)

TREE: 310 ; 430

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copy: 1 id: 47713-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14298

ADNO: 875874

AUTH: MCINGVALE P.H.

CLSS: U

CCDE: CIRCUS ; DATA PROCESSING CODE

CORP: ARMY MISSILE COMMAND (REDSTONE ARSENAL, ALA.)

DATE: 7006

DESC: Nuclear Weapon Effects electronic subsystems guidance control L1
LINEAR CONTROL SYSTEM

DESC: SIMULATION (LASER BEAM)

EFFT: GAMMA ; TREE

REPN: RG TR 70 12

SUJO: 3-211-000

TITL: TRANSIENT RADIATION EFFECTS ON A LINEAR ELECTRONIC CONTROL SYSTEM
(U), 83 P., (U)

TREE: 342

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copy: 1 id: 47716-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 14303
ADNO: 875314
AUTH: DENNEHY W.J. ; LEE H.C. ; HOLMES-SIEDLE A.G. ; LEOPOLD W.F.
CLSS: U
CONN: F 33615 69 C 1836
CORP: RCA ASTRO ELECTRONICS DIV. (PRINCETON, N.J.)
DATE: 7009
DESC: SIMULATION (FLASH X-RAY, ELECTRONS) TREE ; THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
MOS ARRAYS
REPN: AFAL TR 70 179
SUJO: 3-222-000
TITL: RADIATION-HARD MOS ARRAYS (U), 120 P., (U)
TREE: 420 ; 325

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copy: 1 id: 47721-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14307
AUTH: SCHMIDT P.R. ; ASHNER J.D.
CLSS: U
CORP: BELL TELEPHONE LABS., INC. (ALLENTOWN, PA.)
DATE: 7000
DESC: SIMULATION (C060) PERMANENT EFFECTS OF RADIATION ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 SI-SION CAPACITORS
DESC: Nuclear Weapon Effects materials coatings laminates L1 SI ON FILMS
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 SI ON TRANSISTORS IGFET
SUJO: 3-221-000 ; 3-229-000 ; 3-245-000
TITL: RADIATION-INSENSITIVE SILICON OXYNITRIDE FILMS FOR USE IN SILICON
DEVICES--PT. 2 (U), 8 P., (U)
TREE: 430

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14315
AUTH: SPENCE H.W. ; MATZEN W.T. ; STEHLIN R.A.
CLSS: U
CORP: TEXAS INSTRUMENTS, INC.

DATE: 7007
DESC: NEUTRON RADIATION HARDENING TREE ; THEORY
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
SUJO: 3-221-000 ; 3-222-000
TITL: HARDNESS ASSURANCE THROUGH PHYSICAL DESIGN (U), 24 P., (U)
TREE: 430 ; 610

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14315

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copy: 1 id: 47732-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14318
ADNO: 520708L
AUTH: OCONNOR M. ; BURNS J.C.
CLSS: SRD 1
CONN: DAHC 60 69 C 0068
CORP: GENERAL ELECTRIC CO., SPACE SCIENCES LAB. (PHILADELPHIA, PA.)
DATE: 6911
DESC: Nuclear Weapon Environment dust moisture injection atmosphere L5
DESC: Meteorology L1 CLOUDS OVER SAFEGUARD SITES
DESC: Nuclear Warfare Strategic defense discrimination observables
signatures L1
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L5 IR
TRANSMISSION
DESC: HARDSITE DEFENSE ; THEORY EXPERIMENTAL
DESC: Radiation Transport IR L5
EFFT: TREE
REPN: 69 SD 1015
TSHO: SURFACE
SOCE: SPRINT ; SPARTAN
SUJO: 2-222-400 ; 3-424-900 ; 5-200-000 ; 5-500-000 ; 9-670-000
SYST: MINUTEMAN
TEMP: A2121
TITL: DISCRIMINATION ANALYSIS AND HARD POINT OPTICAL STUDY (U), CA. 200
P., (SRD)

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14318

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copy: 1 id: 47734-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14789
AUTH: BUTLER C.P.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)

DATE: 6901
DESC: Nuclear Weapon Effects on animals thermal L1
DESC: FLAMBEAU ; EXPERIMENTAL
DESC: Nuclear Weapon Effects structures aboveground cities L1 MASS FIRE
EFFT: THERMAL
SUJO: 3-252-000 ; 3-313-000
TTTL: MASS FIRE LIFE SAFETY (U), 19 P., (U)

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14789

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copy: 1 id: 48115-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14792
ADNO: 519834L
CLSS: SRD 1
CORP: NAVAL RESEARCH LAB. (WASH., D.C.)
DATE: 7012
DESC: Nuclear Weapon Effects space systems L5 HARDENING SPECS
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1 SPACECRAFT
DESC: SUMMARY
EFFT: X-RAY ; NEUTRON ; GAMMA ; EMP
REPN: NRL R 7227 UPPL.
SUJO: 3-114-000 ; 4-140-000
TEMP: A2005
TTTL: TIMATION DEVELOPMENT PLAN; NUCLEAR VULNERABILITY AND RADIATION
HARDENING (U), 10 P., (SRD)

TREE: 440

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14792

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copy: 1 id: 48117-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14800
CLSS: SRD CNWDI
CCDE: SIMON ; SWORDTAIL ; Z ; SPUB ; SQUID ; EGG ; TX-46 ; RANC
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7007
DESC: Nuclear Weapon Effects EM Propagation absorption blackout L1 HEN
HOUSE HEN ROOST BRIEF SYSTEM DESCRIPTION
DESC: Nuclear weapon test yield L1
DESC: SUMMARY
DESC: Nuclear Weapon Effects ordnance bombs mines warheads nuclear L1
CHINESE [REDACTED] VULNERABILITY
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1

REPN: QL 712 ; BMR 28/OSI
SHOT: OAK ; FRENCH (70-SERIES) ; CHINESE ; SWANEE ; ASPEN ; REDWOOD ;
MOHAWK ; CALAMITY ; DOGWOOD ; ENCINO ; PINE ; CHAMA ; FIR ; ELDER ;
APACHE ; WALNUT ; BIGHORN ; POPLAR ; ZUNI ; PAMLICO ; HOUSATONIC
SOCE: [REDACTED] SS-9 MOD 1 ; SS-9 MOD 2
SUJO: 2-321-100 ; 3-161-100 ; 4-835-000 ; 4-836-000
TEMP: 75601
TTTL: EXTRACT FROM PROJECT IRONBUSH BIMONTHLY REPORT FOR MAY-JUNE 1970
TECHNICAL STATUS REPORT (U), 117 P., (SRD CNWDI)

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14800

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copy: 1 id: 48120-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14934
AUTH: KERRIS K.G. ; BERGGREN C.C. ; CARTER D.B. ; SPEHAR G.G.
CLSS: U
CONN: DASA 01 68 C 0059
CORP: HUGHES AIRCRAFT CO. (FULLERTON, CA.)
DATE: 6900
DESC: Nuclear Weapon Effects materials metals alloys L1 COPPER
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1
EFFT: TREE
SUJO: 3-231-000 ; 3-243-000
TTTL: RADIATION EFFECTS IN COAXIAL CABLES (U), 24 P., (U)
TREE: 390

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14934

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copy: 1 id: 48221-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15130
AUTH: SCHALLAU J.W.
CLSS: U
CORP: LOCKHEED PALO ALTO RESEARCH LAB.
DATE: 6909
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: SIMULATION (FLASH X-RAY CO 60 REACTOR) ; EXPERIMENTAL
EFFT: TREE
REPN: LMSC 4 09 69 1
SUJO: 3-222-000
TTTL: RADIATION RESPONSE CHARACTERIZATION OF THE SIGNETICS 8880 TTL NAND
GATE (U), 32 P., (U)
TREE: 320

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15130
.endblock
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copy: 1 id: 48376-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 15177
ADNO: 695687
AUTH: BROWN S.L. ; PILZ U.F.
CLSS: U
CONN: DAHC 20 67 C 0116
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK, CA.)
DATE: 6901
DESC: Nuclear Weapon Effects on plants ionizing radiation L5
DESC: Nuclear Warfare Postattack Recovery resources agriculture food
supply L1
DESC: SUMMARY
EFFT: FALLOUT
REPN: SRI PROJ. MU 6250 052
SUJO: 3-332-000 ; 3-448-100
TITL: U.S. AGRICULTURE-POTENTIAL VULNERABILITIES (U), 100 P., (U)
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15177
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copy: 1 id: 48412-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15187
AUTH: KORVER J.A.
CLSS: U
CCDE: RAVE
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7002
DESC: Nuclear Weapon Environment Ground Shock L1
DESC: Nuclear Weapon Environment Ground Shock craters excavations L5
DESC: LISTING AND FLOW CHART I-D FINITE DIFFERENCE APPROXIMATIONS ; THEORY
CODE
DESC: Nuclear Weapon Environment Ground Shock cavities subsidence collapse
L5
REPN: UCRL 50828
SUJO: 2-620-000 ; 2-625-000 ; 2-627-000
TITL: RAVE, A COMPUTER CODE FOR ANALYZING THE NON-STEADY INCOMPRESSIBLE
FLOW OF A FLUID INTO OR OUT OF A NUCLEAR CHIMNEY (U), 35 P., (U)

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15187
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copy: 1 id: 48420-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 15188
AUTH: KORVER J.A.
CLSS: U
CCDE: T-WAVE
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7003
DESC: CODE LISTING AND FLOW CHART 1-D ; THEORY CODE
DESC: Nuclear Weapon Environment Ground Shock L1 UNDERGROUND TEST
REPN: UCRL 50830
SUJO: 2-620-000
TITL: T-WAVE, A COMPUTER CODE FOR ANALYZING THE NONSTEADY GRAVITY DECAY OF
A GROUNDWATER ANOMALY (U), 60 P., (U)

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copy: 1 id: 48421-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15226
ADNO: 856482
AUTH: ZAININGER K.H. ; DENNEHY W.J. ; FELLER A. ; HOLMES-SIEDLE A.G. ;
HOFSTEIN S.R. ; MEYER J.E. ; REVESZ A.G.
CLSS: U
CCDE: ZZ (COMPUTER SIMULATION TREE)
CONN: F 33615 67 C 1140
CORP: RCA LABS. (PRINCETON, N.J.)
DATE: 6908
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 MOS TRANSISTORS
DESC: SIMULATION (LINAC) ; EXPERIMENTAL CODE
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 MIS CAPACITORS MOS
CAPACITORS
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
CMOS IC
EFFT: TREE
REPN: AFAL TR 69 185
SUJO: 3-221-000 ; 3-222-000 ; 3-229-000
TITL: STABILITY AND RADIATION EFFECTS IN COMPLEMENTARY MOS TRANSISTORS
(U), 168 P., (U)
TREE: 325

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copy: 1 id: 48462-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15230
AUTH: SCHALLHORN D.R. ; BUXTON L.D.
CLSS: U
CCDE: ZEBRA
CORP: PENNSYLVANIA STATE UNIVERSITY (UNIVERSITY PARK, PA.)
DATE: 6907
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 SI GE KOVAR INSB
DESC: Nuclear Weapon Effects materials metals alloys 61 A1 CU AU TA
DESC: Radiation Transport electron L1
DESC: SIMULATION (FLASH X-RAY) LASER INTERFEROMETER ; EXPERIMENTAL
EFFT: BETA
SUJO: 3-220-200 ; 3-243-000 ; 9-680-000
TITL: PREDICTED AND MEASURED DEPTH DOSE PROFILES FOR PULSED ELECTRON
SPECTRA (U), 30 P., (U)
TREE: 990

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15230

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copy: 1 id: 48466-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15232
AUTH: GWYN C.W.
CLSS: U
CORP: SANDIA LABS. (ALBUQUERQUE, N.M.)
DATE: 6907
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 SCR
DESC: SIMULATION (FIELD EMISSION PULSED RADIATION SOURCE) ; EXPERIMENTAL
REPN: SC DC 69 1673 , CONF 690704 3 ; N70 11869
SUJO: 3-221-000
TITL: ANALYSIS OF IONIZING RADIATION EFFECTS IN FOUR-LAYER SEMICONDUCTOR
DEVICES (U), 29 P., (U)
TREE: 310

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15232

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copy: 1 id: 48468-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15233
ADNO: 8571366
AUTH: HARRITY J.W.
CLSS: U
CONN: DAAB 07 69 C 0033

CORP: GULF GENERAL ATOMIC, INC. (SAN DIEGO, CA.)
DATE: 6907
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1
DESC: SAPPHIRE (A12 O3) SPINEL (MGO.A12O3)/SIMULATION (LINAC) ;
EXPERIMENTAL
EFFT: BETA
REPN: GA 9357 ; ECOM 0033 2
SUJO: 3-220-200
TITL: RADIATION EFFECTS IN DIELECTRIC MATERIALS (U), 20 P., (U)
TREE: 385

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copy: 1 id: 48469-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15235
ADNO: 849226L
AUTH: WILLOUGHBY N.
CLSS: U
CORP: PICATINNY ARSENAL (DOVER, N.J.)
DATE: 6902
DESC: FERRITES SIMULATION (FLASH ELECTRON PULSE) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1
DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses L1
EFFT: BETA
REPN: PA TR 3869
SUJO: 3-162-000 ; 3-220-200
TITL: FLASH ELECTRON RADIATION EFFECTS ON FERRITES (U), 78 P., (U)
TREE: 343

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copy: 1 id: 48471-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15246
AUTH: CORDWELL W.A.
CLSS: U
CCDE: SCEPTRE
CONN: F 30603 68 C 0109
CORP: IBM, FEDERAL SYSTEMS DIV. (OWEGO, N.Y.)
DATE: 6906
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 SCR MOSFET JFET
DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1

MAGNET CORE

DESC: THEORY CODE
REPN: IBM 69 825 2371
SUJO: 3-221-000 ; 3-225-000
TITL: RADIATION DEVICE MODELING FOR THE SCEPTRE PROGRAM (U), 34 P., (U)
TREE: 250 ; 330

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copy: 1 id: 48481-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15330
ADNO: 872977
AUTH: CARR E.A. ; BINDER D.
CLSS: U
CONN: F 29601 69 C 0154
CORP: HUGHES AIRCRAFT CO. (FULLERTON, CA.)
DATE: 7007
DESC: SIMULATION (FLASH X-RAY, LINAC) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic piecparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS
EFFT: TREE
REPN: AFWL TR 70 42
SUJO: 3-221-000
TITL: RADIATION-INDUCED SECOND BREAKDOWN (U), 48 P., (U)
TREE: 310

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copy: 1 id: 48553-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15331
ADNO: 866972
AUTH: SHANKS R.R. ; NELSON D.L. ; FOWLER R.L. ; CHAMBERS H.C. ; NEIHAUS
D.J.

CLSS: U

CONN: F 33615 68 C 1666

CORP: ENERGY CONVERSION DEVICES, INC. (TROY, MI.)

DATE: 7003

DESC: Nuclear Weapon Effects electronic piecparts integrated circuits L1
AND/OR GATE MULTIVIBRATOR FLIP-FLOP

DESC: SIMULATION (FLASH X-RAY, REACTOR) ; EXPERIMENTAL

EFFT: TREE

REPN: ECD 507 ; AFAL TR 70 15

SUJO: 3-222-000

TITL: RADIATION HARDENING CIRCUITRY USING NEW DEVICES (U), 66 P., (U)

TREE: 320 ; 420

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copy: 1 id: 48554-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15332

ADNO: 866831

AUTH: VAN ANTWERP W.R. ; ROCK T.J. ; YOUNGBLOOD J.E. ; SACCENTI J.C. ;
KAUFMAN E.J.

CLSS: U

CCDE: ZZ (COLLIMATOR STUDY)

CONN: F 29601 67 M 0002

CORP: ARMY NUCLEAR DEFENSE LAB. (EDGEWOOD ARSENAL, MD.)

DATE: 7003

DESC: test instruments nuclear radiation gamma L1 X-RAY SPECTROGRAPH FLASH
X-RAY

DESC: EXPERIMENTAL

REPN: AFSWC TR 69 28

SUJO: 4-341-000

TITL: TREE-TEST FACILITY GAMMA-RAY SPECTRUM ANALYZER (U), 118 P., (U)

TREE: 651

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copy: 1 id: 48555-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15333

ADNO: 881972L

AUTH: HARRAH L.A.

CLSS: U

CORP: SANDIA LABS. (ALBUQUERQUE, N.M.)

DATE: 7006

DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects materials plastics resins L1

DESC: test instruments nuclear radiation dosimeters radiacs L5

EFFT: BETA ; TREE

REPN: SC RR 70 427

SUJO: 3-244-000 ; 4-346-000

TITL: PULSED ELECTRON BEAM ENERGY DEPOSITION PROFILES USING SOLID
RADIATION SENSITIVE PLASTICS (U), 24 P., (U)

TREE: 654

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copy: 1 id: 48556-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 15334
ADNO: 867761
AUTH: SNOW E.H. ; HURLSTON R.E. ; ALBUS H. ; TREMERE D.A. ; YU A.Y.C.
CLSS: U
CONN: F 19628 69 C 0118
CORP: FAIRCHILD CAMERA AND INSTRUMENT CORP., FAIRCHILD RESEARCH AND
DEVELOPMENT (PALO ALTO, CA.)
DATE: 7002
DESC: Nuclear Weapon Effects materials wood paper cellulose films L1 GA AS
FILMS
DESC: SIMULATION (REACTOR, FLASH X-RAY) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 GA AS DIODES GA AS FETS POWER JFETS
EFFT: TREE
REPN: SCI. REPT. 2 ; AFCRL 70 0102
SUJO: 3-221-000 ; 3-246-000
TITL: STUDY OF RADIATION EFFECTS ON NOVEL SEMICONDUCTOR DEVICES (U), 64
P., (U)
TREE: 310

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15334
.endblock
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copy: 1 id: 48557-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 15335
ADNO: 864842
AUTH: BARTLOW H.D.
CLSS: U
CONN: DAAB 05 69 C 0024
CORP: TRW SEMICONDUCTORS, INC. (LAWNDALE, CA.)
DATE: 6912
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
CLASS C AMPLIFIER
EFFT: TREE
REPN: ECOM 0024 1
SUJO: 3-213-000 ; 3-221-000
TITL: 50 WATT 76 MHZ PEM TRANSISTOR RADIATION RESISTANT HIGH POWER (U), 41
P., (U)
TREE: 310

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15335
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copy: 1 id: 48558-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 15337
ADNO: 874411
AUTH: MACDOUGALL J.S. ; STAFFORD K.R. ; STELLRECHT H.H.
CLSS: U
CONN: F 19628 69 C 0166
CORP: FAIRCHILD CAMERA AND INSTRUMENT CORP., FAIRCHILD RESEARCH AND
DEVELOPMENT (PALO ALTO, CA.)
DATE: 7007
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
AMPLIFIERS
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL
DESC: Nuclear RDT&E Research Program Descriptions integrated effects
system studies L1 FET AMPLIFIERS
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 FET
EFFT: TREE
REPN: SCI. REPT. 2 ; AFCRL 70 0321
SUJO: 3-213-000 ; 3-221-000 ; 4-160-000
TITL: DEVELOPMENT OF RADIATION HARDENED OPERATIONAL AMPLIFIERS (U), 46 P.,
(U)
TREE: 369 ; 310

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copy: 1 id: 48560-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15338
ADNO: 874439
AUTH: MACDOUGALL J.S. ; STAFFORD K.R. ; STELLRECHT H.H.
CLSS: U
CONN: F 19628 69 C 0166
CORP: FAIRCHILD CAMERA AND INSTRUMENT CORP., FAIRCHILD RESEARCH AND
DEVELOPMENT (PALO ALTO, CA.)
DATE: 7001
DESC: AMPLIFIERS ; EXPERIMENTAL
DESC: Nuclear RDT&E Research Program Descriptions integrated effects
system studies L1
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
EFFT: TREE
REPN: SCI. REPT. 1 ; AFCRL 69 0410
SUJO: 3-213-000 ; 4-160-000
TITL: DEVELOPMENT OF RADIATION HARDENED OPERATIONAL AMPLIFIERS (U), 32 P.,
(U)
TREE: 310 ; 369

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copy: 1 id: 48561-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 15340

ADNO: 870766

AUTH: GEORGE W.L. ; WALTERS C.K.

CLSS: U

CONN: F 19628 68 C 0296

CORP: MOTOROLA, INC., SEMICONDUCTOR PRODUCTS DIV. (PHOENIX, AZ.)

DATE: 6911

DESC: SIMULATION (REACTOR) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 ZENER DIODES

EFFT: TREE

REPN: V 49 ; AFCRL 70 0166

SUJO: 3-221-000

TITL: RADIATION HARDENED O-TC ZENER DIODES (U), 83 P., (U)

TREE: 310

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copy: 1 id: 48563-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 15341

ADNO: 873031

AUTH: GEORGE W.L.

CLSS: U

CONN: F 19628 68 C 0141

CORP: MOTOROLA, INC., SEMICONDUCTOR PRODUCTS DIV. (PHOENIX, AZ.)

DATE: 7001

DESC: SIMULATION (LINAC, REACTOR) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 JFETS

DESC: test instruments nuclear radiation dosimeters radiacs L1

EFFT: TREE

REPN: B 51 ; SCI. REPT. 2 ; AFCRL 70 0339

SUJO: 3-221-000 ; 4-346-000

TITL: RADIATION HARDENED JUNCTION FIELD EFFECT TRANSISTORS (U), 29 P., (U)

TREE: 310

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copy: 1 id: 48564-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 15342
ADNO: 873147
AUTH: GEORGE W.L. ; CLARK L.
CLSS: U
CONN: F 19628 68 C 0113
CORP: MOTOROLA, INC., SEMICONDUCTOR PRODUCTS DIV.
DATE: 7005
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 POWER TRANSISTORS
EFFT: TREE
REPN: L 50 ; SCI. REPT. 3 ; AFCRL 70 0340
SUJO: 3-221-000
TITL: RADIATION HARDENED SILICON POWER TRANSISTORS (U), 25 P., (U)
TREE: 310

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copy: 1 id: 48565-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 15355
AUTH: CARR E.A.
CLSS: U
CORP: HUGHES AIRCRAFT CO., GROUND SYSTEMS GRP. (FULLERTON, CA.)
DATE: 7000
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
EFFT: TREE
SUJO: 3-221-000
TITL: TRANSIENT RADIATION EFFECTS IN TRANSISTORS (U), 30 P., (U)
TREE: 310

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copy: 1 id: 48576-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 15372
AUTH: KLOEPPER R.M.
CLSS: U
CORP: IBM (OWEGO, N.Y.)
DATE: 7000

DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL
DESC: test instruments nuclear radiation gamma L1
DESC: Nuclear Weapon Effects electronic pieceparts measuring devices
sensors detectors L1
DESC: test instruments nuclear radiation neutron L1
EFFT: TREE
REPN: IBM 64 825 1138
SUJO: 3-224-000 ; 4-341-000 ; 4-342-000
TITL: NEUTRON AND GAMMA-RAY RATE SENSITIVITIES OF SEVERAL DYNAMIC
DETECTORS USED IN RADIATION EFFECTS (U), 8 P., (U)
TREE: 364

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15372

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copy: 1 id: 48591-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15417
ADNO: 859825
AUTH: BROWN R.A.
CLSS: U
CCDE: ZZ (DATA REDUCTION)
CONN: DAAH 01 69 C 0844
CORP: UNIVERSITY OF ALABAMA, RESEARCH INSTITUTE (HUNTSVILLE, AL.)
DATE: 6909
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L5

DESC: THEORY
EFFT: TREE
SUJO: 3-221-000
TITL: DESIGN OF RADIATION--SENSITIVITY EXPERIMENTS FOR ELECTRONIC
COMPONENTS (U), 16 P., (U)
TREE: 642

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copy: 1 id: 48621-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15423
ADNO: 873048
AUTH: BUEHLER M.G. ; CRABBE J.S. ; MATZEN W.T.
CLSS: U
CONN: F 19628 68 C 0184
CORP: TEXAS INSTRUMENTS, INC. (DALLAS, TX.)
DATE: 6912
DESC: EXPERIMENTAL
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L1 TRANSISTORS DIODES

EFFT: TREE
REPN: AFCRL 70 0331 ; TI 03 70 50
SUJO: 4-170-000
TITL: INVESTIGATION OF RADIATION EFFECTS IN SEMICONDUCTORS (U), 19 P., (U)
TREE: 642

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copy: 1 id: 48626-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15435
ADNO: 849945
AUTH: HARRITY J.W.
CLSS: U
CONN: DA 28 043 AMC 02446 (E)
CORP: GULF GENERAL ATOMIC, INC. (SAN DIEGO, CA.)
DATE: 6902
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects materials wood paper cellulose films L1
POLYETHYLENE MYLAR TEFLON FILMS
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 POLYETHYLENE MYLAR TEFLON ALZ03 QUARTZ GLASS
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
MONOLITHIC IC-S
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 THIN FILM CAPACITORS
SAPPHIRE + GLASS SUBSTRATE

EFFT: TREE
REPN: GA 9067 ; ECOM 02446 F
SUJO: 3-220-200 ; 3-222-000 ; 3-229-000 ; 3-246-000
TITL: RADIATION EFFECTS IN DIELECTRIC MATERIALS; FINAL REPORT (U), 77 P.,
(U)
TREE: 320 ; 385

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copy: 1 id: 48635-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15470
ADNO: 870150
AUTH: BELL R.O. ; HEMMAT N.
CLSS: U
CONN: F 33615 69 C 1080
CORP: TYCO LABS., INC. (WALTHAM, MA.)
DATE: 7002

DESC: test instruments nuclear radiation gamma L1
DESC: EXPERIMENTAL
EFFT: GAMMA
REPN: AFFDL TR 70 24
SUJO: 4-341-000
TITL: CADMIUM TELLURIDE FOR GAMMA RADIATION DETECTORS (U), 94 P., (U)
TREE: 651

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15470

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copy: 1 id: 48662-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15471
ADNO: 867187
AUTH: WEBSTER J.R.
CLSS: U
CORP: TYCO LABS., INC., GENERAL NUCLEONICS DIV. (POMONA, CA.)
DATE: 7003
DESC: test instruments nuclear radiation gamma L1
DESC: EXPERIMENTAL
EFFT: GAMMA
REPN: AFFDL TR 70 29
SUJO: 4-341-000
TITL: PERFORMANCE EVALUATION OF CADMIUM TELLURIDE DETECTORS TO GAMMA
PHOTON RADIATION (U), 22 P., (U)
TREE: 651

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copy: 1 id: 48663-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15472
ADNO: 875151
AUTH: PELTZER D.L. ; KAUFFMAN W.L.
CLSS: U
CONN: F 19628 69 C 0240
CORP: FAIRCHILD CAMERA AND INSTRUMENT CORP., RESEARCH AND DEVELOPMENT
(PALO ALTO, CA.)
DATE: 7003
DESC: SIMULATION (REACTOR, FLASH X-RAY, LINAC)
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
LOGIC GATES FLIP-FLOPS RING OSCILLATORS
EFFT: TREE
REPN: SCI. REPT. 2 ; AFCRL 70 318
SUJO: 3-222-000
TITL: THEORETICAL AND EXPERIMENTAL STUDY OF USE OF JUNCTION FET DIGITAL

INTEGRATED CIRCUITS IN RADIATION ENVIRONMENTS (U), 50 P., (U)

TREE: 320 ; 341

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15476

ADNO: 871105

AUTH: BARTLOW H.D.

CLSS: U

CONN: DAAB 05 69 C 0024

CORP: TRW SEMICONDUCTORS (LAWNDALE, CA.)

DATE: 7004

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L1 POWER TRANSISTOR

DESC: SIMULATION (REACTOR) ; EXPERIMENTAL

EFFT: TREE

SUJO: 3-221-000

TITL: 50 WATT 76 MHZ PEM TRANSISTOR RADIATION RESISTANT HIGH POWER (U), 37 P., (U)

TREE: 310

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15484

ADNO: 868289

AUTH: GELEZUNAS V.L. ; SAVITSKY E.J. ; MOLDOFSKY P.J.

CLSS: U

CONN: DDA V07 69 C 0291

CORP: GENERAL ELECTRIC CO., SPACE TECHNOLOGY PRODUCTS (PHILADELPHIA, PA.)

DATE: 7004

DESC: test instruments nuclear radiation gamma L1 AVALANCHE DETECTORS

DESC: EXPERIMENTAL

REPN: ECOM 0291 1

SUJO: 4-341-000

TITL: EXPLORATORY DEVELOPMENT OF LARGE AREA AVALANCHE SOLID STATE DETECTORS FOR NUCLEAR AND INFRARED RADIATION (U), 36 P., (U)

TREE: 651

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created: 12/27/1991 type: REPORT permanent
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INUM: 15485
ADNO: 703734
AUTH: KENNEDY D.P.
CLSS: U
CCDE: ZZ (HIGH-LOW SEMICONDUCTOR JUNCTION)
CONN: F 19628 67 C 0116
CORP: IBM, COMPONENTS DIV. (HOPEWELL JUNCTION, N.Y.)
DATE: 7002
DESC: THEORY
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 SEMICONDUCTORS
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 RESISTORS
EFFT: TREE
REPN: IBM TR 22.967
SUJO: 3-220-200 ; 3-221-000 ; 3-229-000
TITL: MATHEMATICAL SIMULATION OF THE EFFECTS OF IONIZING RADIATION ON
SEMICONDUCTORS (U), 241 P., (U)
TREE: 310 ; 250

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15508
ADNO: 866127
AUTH: SMITH J.S.
CLSS: U
CCDE: CIRCUS ; SCEPTRE ; ECAP ; ZZ (JUNCTION PREDICTION CALCULATIONS)
CORP: ROME AIR DEVELOPMENT CENTER (GRIFFISS AFB, N.Y.)
DATE: 7002
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
EXPANDER CIRCUIT
DESC: SIMULATION (LASER) ; EXPERIMENTAL CODE
DESC: test instruments nuclear radiation dosimeters radiacs L5 LASER
DOSIMETRY
EFFT: TREE
REPN: RADC TR 69 393
SUJO: 3-222-000 ; 4-346-000
TITL: METHODS FOR PREDICTING PRIMARY PHOTOCURRENTS (U), 76 P., (U)
TREE: 320 ; 250

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copy: 1 id: 48695-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15539
ADNO: 696566
AUTH: LESEMANN D.F.
CLSS: U
CORP: NAVAL POSTGRADUATE SCHOOL (MONTEREY, CA.)
DATE: 6904
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
EFFT: BETA
REPN: N70 18475
SUJO: 3-213-000
TITL: COMPARISONS BETWEEN RADIATION HARDENED AND STANDARD INTEGRATED
CIRCUIT AMPLIFIERS IN AN ELECTRON BEAM (U), 46 P., (U)
TREE: 430 ; 320

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copy: 1 id: 48719-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15543
ADNO: 860072
AUTH: NOTTHOFF H.K.
CLSS: U
CONN: F 29601 67 C 0083
CORP: MCDONNELL DOUGLAS ASTRONAUTICS CORP. (SANTA MONICA, CA.)
DATE: 6908
DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
AMPLIFIERS
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 NUVISTOR
DESC: Nuclear Weapon Effects electrical mechanical cables wires L5
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS
EFFT: GAMMA
REPN: AFSWC TR 69 2
SUJO: 3-213-000 ; 3-221-000 ; 3-229-000 ; 3-231-000
TITL: RADIATION-HARDENED AMPLIFIER (U), 136 P., (U)
TREE: 369 ; 310

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copy: 1 id: 48723-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15544
ADNO: 865095
AUTH: GROEBER E.O. JR. ; LAKE G.H.
CLSS: U
CORP: AIR FORCE WEAPONS LAB. (KIRTLAND AFB, N.M.)
DATE: 7001
DESC: SIMULATION (CO 60, CS 137) ; EXPERIMENTAL
DESC: test instruments nuclear radiation gamma L1
EFFT: GAMMA
REPN: AFWL TR 69 153
SUJO: 4-341-000
TITL: ENVIRONMENTAL TEST RESULTS FOR THE CDV-711 MARK III AND MODEL 2
REMOTE SENSOR RADIATION METERS (U), 40 P., (U)
TREE: 651

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created: 12/27/1991 type: REPORT permanent
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INUM: 15546
AUTH: MARTIN J.A. ; JONES J.L. ; OREHOTSKY R.S.
CLSS: U
CORP: MOLECULON RESEARCH CORP. (CAMBRIDGE, MA.)
DATE: 6903
DESC: SIMULATION (CO 60, FLASH X-RAY)
DESC: test instruments nuclear radiation dosimeters radiacs L1
POLYETHYLENE CELLOPHANE CELLULOSE ACETATE POLYVINYL CHLORIDE COBALT
GLASS SILVER ACTIVATED GLASS PLATES LI F CA F2 SR F2
EFFT: GAMMA ; BETA
SUJO: 4-346-000
TITL: DOSIMETER RESPONSES TO 25 NANOSECOND ELECTRON PULSES (U), 52 P., (U)
TREE: 364

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copy: 1 id: 48726-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15548
ADNO: 862795
AUTH: FINCH K.B. ; GEORGE W.L. ; WALTERS C.K.
CLSS: U
CONN: F 19628 68 C 0296

CORP: MOTOROLA, INC., SEMICONDUCTOR PRODUCTS DIV. (PHOENIX, AZ.)

DATE: 6907

DESC: SIMULATION (REACTOR) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 ZENER DIODES OTC APPLICATION

EFFT: TREE

REPN: Y 46 ; SCI. REPT. 1 ; AFCRL 69 0451

SUJO: 3-221-000

TITL: RADIATION HARDENED O-TC ZENER DIODES (U), 74 P., (U)

TREE: 310

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copy: 1 id: 48728-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15558

ADNO: 522697L

CLSS: S 3

CORP: NAVAL COMMANDER OPERATIONAL TEST AND EVALUATION FORCE (NORFOLK, VA.)

DATE: 6910

DESC: SIMULATION (STROBE LIGHT) ; EXPERIMENTAL

DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR L1

DESC: Nuclear Weapon Effects on animals thermal ocular effects L1

FLASHBLINDNESS

DESC: Nuclear Weapon Effects supply personnel protection equipment L1 ELF

GOGGLES AND HELMET

EFFT: VISIBLE LIGHT

SUJO: 3-173-500 ; 3-313-200 ; 4-820-600

TEMP: A3673

TITL: CONDUCT AN OPERATIONAL EVALUATION OF THE EXPLOSIVE LIGHT FILTER
FLASHBLINDNESS PROTECTION SYSTEM (U), 32 P., (S)

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copy: 1 id: 48736-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15559

ADNO: 862556

AUTH: CORDWELL W.A.

CLSS: U

CONN: F 29601 68 C 0117

CORP: IBM FEDERAL SYSTEMS DIV. (OWEGO, N.Y.)

DATE: 6910

DESC: HANDBOOK

DESC: Nuclear Weapon Effects electronic subsystems analysis circuit

network L1 TRANSISTORS DIODES NO DATA ON RADIATION EFFECTS

EFFT: TREE
EMPF: 330 ; 341
REPN: AFWL TR 69 44
SUJO: 3-219-000
TITL: TRANSISTOR AND DIODE MODEL HANDBOOK (U), 68 P., (U)
TREE: 250

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copy: 1 id: 48737-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15560
ADNO: 698354
AUTH: LITTLE R. ; FRIEDMAN J.
CLSS: U
CONN: F 19628 67 C 0279
CORP: ION PHYSICS CORP. (BURLINGTON, MA.)
DATE: 6912
DESC: Simulation Facilities Techniques TREE L1 LINAC
DESC: EXPERIMENTAL
DESC: test instruments nuclear radiation beta electron beams L1 PIN DIODE
DESC: test instruments nuclear radiation gamma L1 PIN DIODE LIF TLD
REPN: AFCRL 69 0469
SUJO: 4-272-000 ; 4-341-000 ; 4-344-000
TITL: AFCRL FACILITIES OPERATION (U), 93 P., (U)
TREE: 642

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15563
ADNO: 707080
AUTH: CURTIS O.L. ; SROUR J.R. ; BASS R.F. ; WIKNER E.G.
CLSS: U
CONN: DAAG 39 69 C 0039
CORP: NORTHROP CORPORATE LABS. (HAWTHORNE, CA.)
DATE: 7003
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 SI GE
DESC: EXPERIMENTAL
EFFT: TREE
REPN: HDL 69 39 1 ; NCL 70 13R
SUJO: 3-220-200
TITL: RADIATION EFFECTS IN SILICON AND GERMANIUM (U), 200 P., (U)

TREE: 200
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15563
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copy: 1 id: 48741-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15565
AUTH: BRANDT W.
CLSS: U
CCDE: CLSQ
CONN: DA 28 043 AMC 01999 (E)
CORP: NEW YORK UNIVERSITY, RADIATION AND SOLID STATE LAB. (NEW YORK, N.Y.)
DATE: 6904
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 POLYETHYLENE TEFLON ALKALI HALIDES
DESC: SIMULATION (CO 60) ; EXPERIMENTAL
EFFT: GAMMA
REPN: ECOM 01999 5
SUJO: 3-220-200
TITL: MECHANISMS OF ENERGY TRANSFER IN DIELECTRICS (U), 39 P., (U)
TREE: 200 ; 385

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copy: 1 id: 48743-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15567
ADNO: 851239
AUTH: HARRITY J.W.
CLSS: U
CONN: DAAB 07 69 C 0033
CORP: GULF GENERAL ATOMIC, INC. (SAN DIEGO, CA.)
DATE: 6904
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 SAPPHIRE 200-700 DEGREES K
EFFT: TREE
REPN: GA 9211 ; ECOM 0033 1
SUJO: 3-220-200
TITL: RADIATION EFFECTS IN DIELECTRIC MATERIALS; QUARTERLY REPORT (U), 36
P., (U)
TREE: 385

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copy: 1 id: 48745-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 15568
AUTH: HORIYE H. ; BERGER R.A.
CLSS: U
CCDE: ZZ (RADIATION RESPONSE OF 1C-S)
CONN: N 00014 68 C 0261
CORP: GULF GENERAL ATOMIC, INC. (SAN DIEGO, CA.)
DATE: 6907
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
EFFT: TREE
REPN: GA 9426
SUJO: 3-222-000
TITL: RADIATION-INDUCED LATCHUP IN MONOLITHIC INTEGRATED MICROCIRCUITS
(U), 27 P., (U)
TREE: 320

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copy: 1 id: 48746-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 15569
AUTH: LEADON R.E.
CLSS: U
CCDE: PN
CONN: DASA 01 68 C 0123
CORP: GULF GENERAL ATOMIC, INC. (SAN DIEGO, CA.)
DATE: 6907
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: THEORY
EFFT: TREE
REPN: GA 9425
SUJO: 3-221-000
TITL: USE OF PN CODE FOR PREDICTING TRANSIENT RADIATION EFFECTS IN
SEMICONDUCTOR DEVICES (U), 27 P., (U)
TREE: 310

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15569
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copy: 1 id: 48747-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15570
AUTH: LEAVY J.F. ; POLL R.A.
CLSS: U
CONN: N 00014 68 C 0258
CORP: SYSTEMS, SCIENCE AND SOFTWARE (LA JOLLA, CA.)
DATE: 6907
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DUAL INPUT NETWORKS DEMODULATOR CHOPPERS NAND/NOR GATES 4 INPUT NAND
GATES OPERATIONAL AMPLIFIERS
DESC: SIMULATION (LINAC)
REPN: 3SCR 109
SUJO: 3-222-000
TITL: RADIATION INDUCED INTEGRATED CIRCUIT LATCHUP (U), 40 P., (U)
TREE: 320

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15571
AUTH: MIMS L.S. ; WILLIAMS R.A.
CLSS: U
CORP: NORTH AMERICAN ROCKWELL CORP., AUTONETICS DIV. (ANAHEIM, CA.)
DATE: 6900
DESC: Nuclear Weapon Effects materials coatings laminates L1
DESC: SIMULATION (FLASH X-RAY)
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
SUJO: 3-221-000 ; 3-245-000
TITL: EFFECTS OF PACKAGING ON RADIATION-INDUCED RESPONSES (U), 12 P., (U)
TREE: 610 ; 310

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copy: 1 id: 48749-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15572
AUTH: KIERKING W.H. ; KATZ G.E. ; STEELE E.L.
CLSS: U
CCDE: TRAC ; ZZ (PHOTOCURRENT GENERATOR FOR TRANSISTORS)
CORP: NORTH AMERICAN ROCKWELL CORP., AUTONETICS DIV. (ANAHEIM, CA.)
DATE: 6900
DESC: SIMULATION (LINAC, FLASH X-RAY) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
SUJO: 3-221-000

TITL: TRANSIENT RADIATION CURRENT GENERATOR MODEL FOR SEMICONDUCTOR
DEVICES (U), 21 P., (U)

TREE: 310 ; 250

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copy: 1 id: 48750-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15574

AUTH: NICHOLS J.S. ; ALEXANDER D.R. ; HITTINGER G.N.

CLSS: U

CCDE: SCEPTRE ; ZZ (MODEL OF 709)

CORP: AIR FORCE WEAPONS LAB. (KIRTLAND AFB, N.M.)

DATE: 6900

DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
AMPLIFIER

SUJO: 3-213-000

TITL: CHARACTERIZATION AND MODELING OF THE 709 INTEGRATED CIRCUIT
OPERATIONAL AMPLIFIER IN AN IONIZING RADIATION ENVIRONMENT (U), 27
P., (U)

TREE: 250 ; 320

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15576

AUTH: HENDRIE J.M. ; HOFFMAN K.C. ; KOUTS H.J.C. ; PARSICK R.J. ; PHELPS
J.P. ; PRICE G.A. ; REICH M. ; TAKAHASHI H. ; WINDSOR H.H.

CLSS: U

CORP: BROOKHAVEN NATIONAL LAB. (UPTON, N.Y.)

DATE: 6901

DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources L1

REPN: BNL 13208

SUJO: 4-241-000

TITL: BROOKHAVEN PULSED FAST RESEARCH REACTOR (U), CA. 75 P., (U)

TREE: 642

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copy: 1 id: 48754-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 15611
AUTH: ERICKSON L.M.
CLSS: SRD 1
CCDE: SORS
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6911
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1
DETONATOR CABLES SIGNAL CABLES
DESC: EXPERIMENTAL
EFFT: X-RAY ; NEUTRON ; GAMMA
EMPF: 392
REPN: UCID 15605
SHOT: MINUTE STEAK ; CYPRESS
TSHO: UG-CONTAINED
SUJO: 3-231-000
SYST: [REDACTED]
TEMP: A3526
TTTL: PRELIMINARY REPORT ON CABLE MEASUREMENTS IN MINUTE STEAK (U), 47 P.,
(SRD)
TREE: 390

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copy: 1 id: 48781-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15714
ADNO: 854746
AUTH: KOCHENDORFER D.B.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 6907
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1 U-235
U-238 PU-239
DESC: THEORY EXPERIMENTAL
REPN: NRDL TR 69 30
SUJO: 2-223-100
TTTL: SUMMARY OF IODINE FALLOUT ACTIVITIES RELATED TO EXPOSURE RATES FOR
FISSION WEAPONS AND SHORT REACTOR TEST RUNS (U), 102 P., (U)

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15714

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copy: 1 id: 48862-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15717

ADNO: 507146L
AUTH: ANDREWS J.B. ; GIBSON T. ; SATO E.S.
CLSS: SRD 1
CORP: ARMY ENGINEER NUCLEAR CRATERING GROUP (LIVERMORE, CA.)
DATE: 6912
DESC: Nuclear Weapon Environment Fallout isotope concentrations L5 SR RU
SB I CS TE BA CE W AU
DESC: Nuclear Weapon Environment Ground Shock craters excavations L9 P 3
AND 4
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L5 FIELD COLLECTION METHOD
DESC: LONG-RANGE OBSERVATION
REPN: NCG TR 4
SHOT: BUGGY ; CABRIOLET
TSHO: UG-VENTED
SUJO: 2-223-100 ; 2-625-000 ; 4-140-000
TEMP: A3795
TITL: REPORT OF THE FAR-OUT FALLOUT COLLECTION PROGRAM FOR PROJECTS
CABRIOLET AND BUGGY (U), 41 P., (SRD)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15918
ADNO: 701876
AUTH: RIBAUDO C. ; MALLAY J. ; MATSUGUMA H.J.
CLSS: U
CORP: PICATINNY ARSENAL (DOVER, NJ)
DATE: 7001
DESC: Nuclear Weapon Effects ordnance propellants solid L1 NITROCELLULOSE
-BASED
DESC: Nuclear Weapon Effects ordnance explosives L1 TNT HMX/EXON DATB PENT
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects ordnance propellants liquid L1 NITROCELLULOSE
-BASED
EFFT: INTEGRATED RADIATION
REPN: PA TR 3893
SUJO: 3-163-000 ; 3-164-000 ; 3-165-000
TITL: EFFECTS OF REACTOR IRRADIATION ON THE CHEMICAL CHARACTERISTICS OF
SOLID EXPLOSIVES (U), 74 P., (U)

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15918

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copy: 1 id: 49056-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16313
CLSS: U
DATE: 6900
DESC: EXPERIMENTAL SUMMARY
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
REPN: PACE 27
SUJO: 3-312-220
TITL: NICKEL-63 IN MARINE AND TERRESTRIAL BIOTA, SOIL AND SEDIMENT (U), 3
P., (U)

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copy: 1 id: 49350-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16321
AUTH: LILLY J.Q.
CLSS: U
CORP: ARMY MISSILE COMMAND (REDSTONE ARSENAL, AL.)
DATE: 6905
DESC: THEORY
DESC: Nuclear Weapon Effects reentry systems RV structures L1
EFFT: THERMAL
REPN: RS TR 69 4
SUJO: 3-113-100
TITL: EFFECTS OF EXTERNAL SOURCE RADIATION ON THE STAGNATION FLOW AND
HEATING OF A HYPERSONIC MISSILE (U), 108 P., (U)

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16321

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copy: 1 id: 49357-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16332
ADNO: 869172
CLSS: U
CORP: AIR FORCE WEAPONS LAB. (KIRTLAND AFB, N.M.)
DATE: 6912
DESC: Nuclear Weapon Effects materials metals alloys L1
DESC: SURVEY
EFFT: X-RAY
SUJO: 3-243-000
TITL: RADIATION EFFECTS, PROCEEDINGS OF A MEETING; VOL. 1 (U), 302 P., (U)

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copy: 1 id: 49368-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 16332-007
AUTH: DUVALL G.E. ; TAYLOR S.M. JR.
CLSS: U
CORP: WASHINGTON STATE UNIVERSITY (PULLMAN, WASH.) ; BALLISTICS RESEARCH
LAB. (ABERDEEN PROVING GROUND, MD.)
DATE: 6912
DESC: THEORY
DESC: Nuclear Weapon Effects materials composites L1 POLYETHYLENE -QUARTZ
MIXTURE EQUILIBRIUM HUGONIOTS
DESC: equation of state heat of vaporization thermal conductivity opacity
L1
EFFT: X-RAY
SUJO: 3-249-000 ; 9-710-000
SYMJ: RADIATION EFFECTS, PROCEEDINGS OF A MEETING; VOL. 1
TITL: COMPRESSION OF COMPOSITE MATERIALS (U), 38 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 16332-039
AUTH: KRUGER R.A.
CLSS: U
CCDE: RIP ; FSCAT1 ; PHOTRAN ; PUFF-66
CORP: SYSTEMS, SCIENCE AND SOFTWARE (LA JOLLA, CA.)
DATE: 6912
DESC: Nuclear Weapon Effects materials metals alloys L1 A1 6061-T6
DESC: Solid Mechanics fracture L1
DESC: Nuclear Weapon Effects materials not systems associated L1 ENERGY
DEPOSITION X-RAY PLETE IMPACT ELECTRON BEAM
DESC: TEST DATA L1 ; ENERGY DEPOSITION ; THEORY
EFFT: X-RAY
SUJO: 3-240-000 ; 3-243-000 ; 9-220-000
SYMJ: RADIATION EFFECTS, PROCEEDINGS OF A MEETING; VOL. 1
TITL: MATERIAL RESPONSE PROGRAM, RIP (U), 25 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 16332-065

AUTH: MCCLAMMY H.C.
CLSS: U
CORP: AIR FORCE WEAPONS LAB. (KIRTLAND AFB, N.M.)
DATE: 6912
DESC: SIMULATION (FLIER PLATE) SPALL 300 DEGREES C SIMULATION (ELECTRON BEAM) X-RAY ; THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects materials metals alloys L1 A1 6061-T6 TI CU
FE A1 1145 A1 2024-T8 AL 1100 BE P6 NI SN ZN
DESC: Solid Mechanics fracture L1
DESC: Nuclear Weapon Effects materials not systems associated L1 IMPULSIVE
LOADING
EFFT: X-RAY ; BETA
SUJO: 3-240-000 ; 3-243-000 ; 9-220-000
SYMJ: RADIATION EFFECTS, PROCEEDINGS OF A MEETING; VOL. 1
TITL: DYNAMIC FRACTURE (U), 30 P., (U)

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copy: 1 id: 49371-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16332-097
AUTH: MOSS G.L. ; FRANZ R.E.
CLSS: U
CORP: BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD.)
DATE: 6912
DESC: SIMULATION (PLATE IMPACT) SIMULATION ; EXPERIMENTAL THEORY
DESC: Solid Mechanics L1 ALUMINUM
DESC: Nuclear Weapon Effects materials metals alloys L1 AL 1100 ALUMINUM
SHOCK LOADING
EFFT: X-RAY
SUJO: 3-243-000 ; 9-200-000
SYMJ: RADIATION EFFECTS, PROCEEDINGS OF A MEETING; VOL. 1
TITL: DEFECTS IN SHOCKED ALUMINUM (U), 30 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16332-129
AUTH: ISBELL W.M. ; CHRISTMAN D.R.
CLSS: U
CORP: GENERAL MOTORS TECHNICAL CENTER (WARREN, MI.)
DATE: 6912
DESC: SIMULATION (IMPACTOR) SPALL 25 DEGREES C 153 DEGREES C 288 DEGREES C
SIMULATION (FLYER PLATE)X-RAY ; EXPERIMENTAL
DESC: Nuclear Weapon Effects materials metals alloys L1 AL 6061-T6 TA BE

CU TI ALUMINUM SPALL FRACTURE

DESC: Solid Mechanics fracture L1 ALUMINUM
DESC: test instruments test hardware velocity measurement L1
EFFT: X-RAY
SUJO: 3-243-000 ; 4-315-000 ; 9-220-000
SYMJ: RADIATION EFFECTS, PROCEEDINGS OF A MEETING; VOL. 1
TITL: SHOCK PROPAGATION AND FRACTURE IN 6061-T6 ALUMINUM FROM WAVE PROFILE
MEASUREMENTS (U), 40 P., (U)

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copy: 1 id: 49373-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16332-171
AUTH: HERRMANN W. ; LAWRENCE R.J. ; MASON D.S.
CLSS: U
CCDE: WONDY
CORP: SANDIA LABS. (ALBUQUERQUE, N.M.)
DATE: 6912
DESC: Solid Mechanics stress-strain L1
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects materials metals alloys L1 A1 6061-T6 AL
1060-0 SHOCK LOADING ALUMINUM
EFFT: X-RAY
SUJO: 3-243-000 ; 9-230-000
SYMJ: RADIATION EFFECTS, PROCEEDINGS OF A MEETING; VOL. 1
TITL: EFFECT OF STRAIN HARDENING AND STRAIN RATE IN ELASTIC-PLASTIC WAVE
PROPAGATION (U), 51 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16332-223
AUTH: CHOU P. ; CHEN S.
CLSS: U
CCDE: MEDIT 4
CORP: DREXEL INSTITUTE OF TECHNOLOGY (PHILADELPHIA, PA.)
DATE: 6912
DESC: Solid Mechanics L1 SHOCK PROPAGATION
DESC: X-RAY SIMULATION (CODE) ; THEORY CODE
DESC: Nuclear Weapon Effects structures aboveground models plates slabs L1
TWO LAYER PLATE
DESC: Nuclear Weapon Effects materials not systems associated L1 SHOCK
PROPAGATION
DESC: Nuclear Weapon Effects materials metals alloys L1 AL + PB

DESC: equation of state heat of vaporization thermal conductivity opacity
L1 ENERGY DEPOSITION SHOCK WAVE GENERATION
EFFT: X-RAY
SUJO: 3-240-000 ; 3-243-000 ; 3-259-300 ; 9-200-000 ; 9-710-000
SYMJ: RADIATION EFFECTS, PROCEEDINGS OF A MEETING; VOL. 1
TITL: METHOD OF CHARACTERISTIC CODE FOR ENERGY DEPOSITION CALCULATIONS
(U), 31 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16332-255
AUTH: SHISHMAN T.T.
CLSS: U
CCDE: MAGYAR ; COFGEN
CORP: SANDIA LABS. (ALBUQUERQUE, N.M.)
DATE: 6912
DESC: Radiation Transport neutron L1
DESC: NEUTRON ; THEORY CODE
DESC: Cross Sections neutron L1
DESC: Nuclear Weapon Effects electronic subsystems L1
DESC: Nuclear Weapon Effects materials not systems associated L1 43
ELEMENTS

DESC: Nuclear Weapon Effects electronic pieceparts L1
EFFT: NEUTRON
SUJO: 3-210-000 ; 3-220-000 ; 3-240-000 ; 9-650-000 ; 9-820-000
SYMJ: RADIATION EFFECTS, PROCEEDINGS OF A MEETING; VOL. 1
TITL: PROGRAM MAGYAR, A SINGLE-COLLISION MODEL NEUTRON HEATING CODE FOR
COMPONENT DESIGN (U), 12 P., (U)

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copy: 1 id: 49376-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16332-269
AUTH: COST T.L.
CLSS: U
CORP: UNIVERSITY OF ALABAMA (UNIVERSITY, AL.)
DATE: 6912
DESC: SIMULATION (ACOUSTIC WAVES FLYER PLATE IMPACT) ; THEORY EXPERIMENTAL
SUMMARY CODE
DESC: Nuclear Weapon Effects materials plastics resins L1
DESC: Solid Mechanics L1 STRESS WAVE PROPAGATION
EFFT: X-RAY
SUJO: 3-244-000 ; 9-200-000

SYMJ: RADIATION EFFECTS, PROCEEDINGS OF A MEETING; VOL. 1
TITL: CHARACTERIZATION OF VISCOELASTIC MATERIALS FOR STRESS WAVE ANALYSES
(U), 15 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16344
AUTH: BEASLEY T.M. ; HELD E.E.
CLSS: U
CORP: UNIVERSITY OF WASHINGTON, COLLEGE OF FISHERIES, LABORATORY OF
RADIATION ECOLOGY (SEATTLE, WASH.)
DATE: 7000
DESC: EXPERIMENTAL SUMMARY
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
REPN: PACE 28
SUJO: 2-223-100 ; 3-312-220
TITL: SILVER-108M IN BIOTA AND SEDIMENTS AT BIKINI AND ENIWETOK ATOLLS
(U), 2 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 16381
ADNO: 848371
AUTH: ORNDORFF R.M. ; SMITH L.D.
CLSS: U
CONN: F 33615 68 C 1614
CORP: HUGHES AIRCRAFT CO. (FULLERTON, CA.)
DATE: 6902
DESC: SIMULATION (LINAC REACTOR CO 60) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic subsystems guidance control L1
DIODES TRANSISTORS ZENER DIODES
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1 POWER SUPPLY
EFFT: TREE
REPN: FR 69 10 228 ; AFAL TR 68 370
SUJO: 3-211-000 ; 3-219-000
TITL: RADIATION HARDENED POWER SUPPLY (U), 80 P., (U)
TREE: 310 ; 393

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created: 12/27/1991 type: REPORT permanent

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INUM: 16561
ADNO: 689447
AUTH: KUMAI M. ; RUSSELL J.D.
CLSS: U
CORP: ARMY COLD REGIONS RESEARCH AND ENGINEERING LAB. (HANOVER, N.H.)
DATE: 6904
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1
DESC: Meteorology L1
DESC: THEORY
REPN: CRREL RESEARCH REPT. 264
SUJO: 5-200-000 ; 5-500-000
TITL: ATTENUATION OF BACKSCATTERING OF INFRARED RADIATION BY ICE FOG AND
WATER FOG (U), 11 P., (U)

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16561

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copy: 1 id: 49485-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16608
AUTH: WENZEL R.F. ; HALPIN J.J. ; CAMPBELL F.J.
CLSS: U
CORP: NAVAL RESEARCH LAB. (WASH., D.C.)
DATE: 7002
DESC: Description No Vulnerability Non-weapon Lasers L1
DESC: SIMULATION (CO 60, LINAC) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical
devices sensors IR detectors L1
REPN: NRL R 7063
SUJO: 3-133-000 ; 3-920-000
TITL: TRANSIENT RADIATION EFFECTS ON RUBY LASERS (U), 96 P., (U)
TREE: 366

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copy: 1 id: 49511-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16619
AUTH: HEATON E.C. ; ROTOLANTE R.A. ; FITCH S.H.
CLSS: U

CORP: AUTONETICS (ANAHEIM, CA.)
DATE: 7007
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L5
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L5
EFFT: TREE
SUJO: 3-221-000 ; 3-222-000
TITL: RADIATION HARDNESS ASSURANCE FOR ELECTRONIC SYSTEMS (U), 20 P., (U)
TREE: 610

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copy: 1 id: 49521-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16622
ADNO: 863258
AUTH: GEORGE W.L.
CLSS: U
CONN: F 19628 68 C 0113
CORP: MOTOROLA, INC. (PHOENIX, AZ.)
DATE: 6907
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 POWER TRANSISTORS
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL
EFFT: TREE
REPN: I 47 ; AFCRL 69 0502
SUJO: 3-221-000
TITL: RADIATION HARDENED SILICON POWER TRANSISTORS (U), 72 P., (U)
TREE: 310

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copy: 1 id: 49532-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16623
ADNO: 854805
AUTH: DUPREE S.A. ; SANDMEIER H.A.
CLSS: U
CCDE: DTFXRAY ; GAMLEGX ; DTF-IV ; GAMLEG
CORP: NAVAL WEAPONS EVALUATION FACILITY (ALBUQUERQUE, N.M.)
DATE: 6905
DESC: TABULAR
DESC: Radiation Transport gamma L1
DESC: Cross Sections gamma L1 AL
DESC: Cross Sections x-ray L1 AIR

DESC: Radiation Transport x-ray L1
SUJO: 9-620-000 ; 9-640-000 ; 9-830-000 ; 9-840-000
TITL: PHOTON TRANSPORT CALCULATIONS USING THE METHOD OF DISCRETE
ORDINATES; VOL. 1, THEORETICAL CONSIDERATIONS (U), 104 P., (U)

TREE: 960 ; 980

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created: 12/27/1991 type: REPORT permanent

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INUM: 16624

ADNO: 859827

AUTH: DUPREE S.A.

CLSS: U

CCDE: SLANT

CORP: NAVAL WEAPONS EVALUATION FACILITY (ALBUQUERQUE, N.M.)

DATE: 6906

DESC: Radiation Transport L1

DESC: CODE

REPN: NWEF REPT. 1044

SUJO: 9-600-000

TITL: CALCULATION OF RADIATION ENVELOPES ABOUT POINT SOURCES IN THE
ATMOSPHERE--PROGRAM SLANT (U), 26 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 16625

AUTH: DUPREE S.A.

CLSS: U

CCDE: DOSE

CORP: NAVAL WEAPONS EVALUATION FACILITY (ALBUQUERQUE, N.M.)

DATE: 6906

DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1

DESC: CODE

DESC: Radiation Transport neutron L1

REPN: NWEF REPT. 1040

SUJO: 1-120-000 ; 9-650-000

TITL: ALTITUDE SCALING OF NEUTRON FLUXES IN AIR--PROGRAM DOSE (U), 36 P.,
(U)

TREE: 970

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created: 12/27/1991 type: REPORT permanent
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INUM: 16627
AUTH: HARRAH L.A.
CLSS: U
CORP: SANDIA LABS. (ALBUQUERQUE, N.M.)
DATE: 6907
DESC: test instruments nuclear radiation dosimeters radiacs L1 DOSE RATES
TO 10 14 RADS/SEC DOSE 5 X10 4 TO 1.5 X 10 7 RADS
DESC: SIMULATION (FEBETRON CO 60) ; EXPERIMENTAL
EFFT: GAMMA ; BETA
REPN: SC DC 69 1815
SUJO: 4-346-000
TITL: CHEMICAL DOSIMETRY WITH DOPED POLLY (HALO STYRENE) FILM (U), 31 P.,
(U)
TREE: 655

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created: 12/27/1991 type: REPORT permanent
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INUM: 16629
ADNO: 863792
AUTH: HARRITY J.W.
CLSS: U
CONN: DAAB 07 69 C 0033
CORP: GULF GENERAL ATOMIC, INC. (SAN DIEGO, CA.)
DATE: 6912
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 SAPPHIRE SPINEL BE O SI ON SAPPHIRE AIR
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
AIR CONDUCTIVITY IN MICROCIRCUIT GEOMETRIC
DESC: SIMULATION (LINAC) TEMPERATURE 200 DEGREES K TO 735 DEGREES K ;
EXPERIMENTAL
EFFT: BETA
REPN: GA 9801 ; ECOM 0033 F
SUJO: 3-220-200 ; 3-222-000
TITL: RADIATION EFFECTS IN DIELECTRIC MATERIALS; FINAL REPORT (U), 61 P.,
(U)
TREE: 385

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copy: 1 id: 49538-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16630
ADNO: 860916
AUTH: HARRITY J.W.
CLSS: U
CORP: GULF GENERAL ATOMIC, INC. (SAN DIEGO, CA.)
DATE: 6909
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 SAPPHIRE SI ON SAPPHIRE
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
EFFT: BETA
REPN: GA 9628 ; ECOM 0033 3
SUJO: 3-220-200
TITL: RADIATION EFFECTS IN DIELECTRIC MATERIALS; QUARTERLY REPORT NO. 3
(U), 23 P., (U)
TREE: 385

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copy: 1 id: 49539-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16631
AUTH: FLANAGAN T.M. ; WROBEL T.F.
CLSS: U
CONN: F 04701 68 C 0185
CORP: GULF GENERAL ATOMIC, INC. (SAN DIEGO, CA.)
DATE: 6907
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1 QUARTZ RESONATORS
DESC: SIMULATION (REACTOR LINAC) ELECTRON SPIN RESONANCE + OPTICAL
ABSORPTION MEASUREMENTS ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 QUARTZ
EFFT: TREE
REPN: GA 9265
SUJO: 3-219-000 ; 3-220-200
TITL: RADIATION EFFECTS IN SWEPT-SYNTHETIC QUARTZ (U), 47 P., (U)
TREE: 367

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16633
AUTH: NICHOLS D.K. ; NIELSEN R.L.

CLSS: U
CORP: AUTONETICS (ANAHEIM, CA.)
DATE: 6900
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
FLIP-FLOPS NAND GATES BUFFER GATES SWITCHES MULTIVIBRATORS
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
EFFT: TREE
REPN: X9 1308/501
SUJO: 3-222-000
TTTL: COMPARISON OF THE IONIZING RADIATION RESPONSE OF MICROCIRCUITS
MANUFACTURED BY FIVE DIFFERENT TECHNOLOGIES (U), 28 P., (U)
TREE: 320 ; 430

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created: 12/27/1991 type: REPORT permanent

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INUM: 16638
AUTH: GWYN C.W. ; SUMMERS G.G. ; CORBETT W.T.
CLSS: U
CCDE: SCEPTRE ; NET1 ; PREDICT ; ZZ (RADIATION EFFECTS IN SEMICONDUCTORS)
CORP: SANDIA LABS. (ALBUQUERQUE, N.M.)
DATE: 7007
DESC: THEORY
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
EFFT: NEUTRON
REPN: SC DC 70 4701
SUJO: 3-221-000
TTTL: ANALYSIS OF THE SATURATION CHARACTERISTICS OF HIGH VOLTAGE
TRANSISTORS WITH APPLICATION TO DEVICE MODELING (U), 25 P., (U)
TREE: 310 ; 250

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16643
ADNO: 720274
CLSS: U
CONN: F 19628 68 C 0188
CORP: PARKE MATHEMATICAL LABS., INC. (CARLISLE, MA.)
DATE: 7012
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 SI
DESC: Radiation Transport electron L1

DESC: THEORY
REPN: AFCRL 71 0054
SUJO: 3-220-200 ; 9-680-000
TITL: RESEARCH ON RADIATION EFFECTS IN SOLIDS (U), 11 P., (U)
TREE: 200

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copy: 1 id: 49550-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16647
ADNO: 876446
AUTH: CESENA R.A. ; FLANAGAN T.M. ; LEADON R.E. ; MALLON C.E. ; NABER J.A.
; WENAAS E.

CLSS: U

CONN: DAAG 39 68 C 0060

CORP: GULF GENERAL ATOMIC, INC. (SAN DIEGO, CA.)

DATE: 7004

DESC: SIMULATION (LINAC FLASH X-RAY) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 SI (76 DEGREES TO 340 DEGREES K) ANTHRACENE CRYSTAL MG
O (500 DEGREES100 DEGREES K ANNEAL) ESR EXPERIMENTS UV LIGHT

EFFT: TREE

REPN: HDL 060 1 ; GA 10098

SUJO: 3-220-200

TITL: RESEARCH ON THE PHYSICS OF TRANSIENT RADIATION EFFECTS (U), 116 P.,
(U)

TREE: 200

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copy: 1 id: 49554-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16648
ADNO: 708393
AUTH: ENRIGHT P.S.
CLSS: U
CORP: NAVAL POSTGRADUATE SCHOOL (MONTEREY, CA.)
DATE: 6912
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
1C AMPLIFIERS
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS
EFFT: BETA
SUJO: 3-213-000 ; 3-221-000

TITLE: STUDY OF TRANSIENT RADIATION EFFECTS ON THE RESPONSE OF STANDARD AND RADIATION-HARDENED INTEGRATED-CIRCUIT OPERATIONAL AMPLIFIERS IN AN ELECTRON BEAM (U), 51 P., (U)

TREE: 320

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16650

ADNO: 709929

AUTH: DROUIN L.E. JR.

CLSS: U

CCDE: TRANSISTOR SOLUTION ; DIODE SOLUTION ; SENSITIVITY ANALYSIS-DIODE

CORP: NAVAL POSTGRADUATE SCHOOL (MONTEREY, CA.)

DATE: 7006

DESC: THEORY CODE

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L1 DIODES TRANSISTORS

SUJO: 3-221-000

TITLE: MATHEMATICAL MODELING AND SENSITIVITY ANALYSIS OF RADIATION EFFECTS ON SEMICONDUCTOR JUNCTIONS (U), 61 P., (U)

TREE: 310 ; 250

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16650

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copy: 1 id: 49557-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16651

ADNO: 875030

AUTH: GELEZUNAS V.L. ; SAVITSKY E.J. ; MOLDOFSKY P.J.

CLSS: U

CONN: DAAB 07 69 C 0291

CORP: GENERAL ELECTRIC CO., SPACE TECHNOLOGY PRODUCTS (PHILADELPHIA, PA.)

DATE: 7009

DESC: test instruments nuclear radiation dosimeters radiacs L1

DESC: SIMULATION (PM 147 VAN DE GRAAFF CO 60 X-RAY MACHINE NA 24 CS 137) ;

EXPERIMENTAL

DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical

devices sensors IR detectors L1 QUADRATURE SILICON AVALANCHE IR

DETECTOR

EFFT: TREE

REPN: ECOM 0291 2

SUJO: 3-133-000 ; 4-346-000

TITLE: EXPLORATORY DEVELOPMENT OF LARGE AREA AVALANCHE SOLID STATE DETECTORS FOR NUCLEAR AND INFRARED RADIATION (U), 40 P., (U)

TREE: 361 ; 655

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16651

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copy: 1 id: 49558-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16652

AUTH: POLISHUK P.

CLSS: U

CORP: AIR FORCE FLIGHT DYNAMICS LAB. (WRIGHT-PATTERSON AFB, OH.)

DATE: 6911

DESC: Nuclear Weapon Effects materials not systems associated L1

DESC: test instruments test hardware blast shock L1

DESC: Nuclear Weapon Effects electronic pieceparts L1

DESC: SURVEY

EFFT: TREE

SUJO: 3-220-000 ; 3-240-000 ; 4-310-000

TITL: RADIATION EFFECTS TO TRANSDUCERS (U), 50 P., (U)

TREE: 363

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copy: 1 id: 49559-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16653

ADNO: 869450

AUTH: MICHELETTI F.B. ; ZAININGER K.H. ; DENNEHY W.J.

CLSS: U

CONN: F 33615 69 C 1789

CORP: RCA LABS. (PRINCETON, N.J.)

DATE: 7005

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1

COS/MOS CD 4007 INVERTER

DESC: SIMULATION (VAN DE GRAAFF PULSED REACTOR FLASH X-RAY) ; EXPERIMENTAL

EFFT: TREE

REPN: AFAL TR 70 53

SUJO: 3-222-000

TITL: FABRICATION OF RADIATION-RESISTANT AI SUB 2 O SUB 3 MOS CIRCUITS

(U), 73 P., (U)

TREE: 325 ; 430

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16653

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copy: 1 id: 49560-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 16691
AUTH: BUEHLER M.G. ; CRABBE J.S. ; MATZEN W.T.
CLSS: U
CONN: F 19628 68 C 0184
CORP: TEXAS INSTRUMENTS, INC. (DALLAS, TX.)
DATE: 7006
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 DIODES TRANSISTORS
DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL
EFFT: TREE
REPN: AFCRL 71 0025 ; TI 03 70 124
SUJO: 3-221-000
TITL: INVESTIGATION OF RADIATION EFFECTS IN SEMICONDUCTORS (U), 83 P., (U)
TREE: 310

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16691

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copy: 1 id: 49592-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 16698
AUTH: SCHULZE J.F.
CLSS: U
CORP: SANDIA LABS. (ALBUQUERQUE, N.M.)
DATE: 6906
DESC: test instruments nuclear radiation beta electron beams L1
DESC: equation of state heat of vaporization thermal conductivity opacity
L1 SPECIFIC HEATS OF GRAPHITE AL TI CU MO THERMAL CONDUCTIVITY OF AL
TI CU MO
DESC: SIMULATION (ELECTRON BEAM GENERATOR) ; EXPERIMENTAL
EFFT: BETA
REPN: SC TM 69 298
SUJO: 4-344-000 ; 9-710-000
TITL: CALORIMETERS FOR MEASURING HIGH-ENERGY, HIGH-INTENSITY, PULSED
ELECTRON BEAMS (U), 30 P., (U)
TREE: 654

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16698

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copy: 1 id: 49599-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 16699
AUTH: REYZER R.J. ; SHAULL J.M. ; HUNTER D.W.
CLSS: U

CORP: HARRY DIAMOND LABS. (WASH., D.C.)
DATE: 7006
DESC: SIMULATION (FLASH X-RAY PULSED REACTOR) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1 RESETTABLE TIMER
EFFT: X-RAY ; NEUTRON
REPN: HDL TM 70 11
SUJO: 3-219-000
TITL: RADIATION HARDENED RESETTABLE TIMER STUDY (U), 56 P., (U)
TREE: 367

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16699

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copy: 1 id: 49600-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16701
AUTH: HOCHWALD W. ; JOHNSON E.D. ; KLEINER C.T. ; MCMURRAY L.R.
CLSS: U
CCDE: SECURE
CORP: AUTONETICS (ANAHEIM, CA.)
DATE: 7007
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1
DESC: SUMMARY
EFFT: TREE
EMPF: 330
REPN: X70 891/501
SUJO: 3-219-000
TITL: SYSTEM EVALUATION CODE UNDER RADIATION ENVIRONMENT (SECURE) (U), 7
P., (U)
TREE: 330

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16701

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copy: 1 id: 49602-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16800
ADNO: 871139
AUTH: HANKS C.L. ; HAMMAN D.J.
CLSS: U
CONN: N 00014 69 C 0178
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS, OH.)
DATE: 7003
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 QUARTZ
DESC: SURVEY

EFFT: TREE
SUJO: 3-220-200
TITL: RADIATION EFFECTS ON QUARTZ OSCILLATOR CRYSTALS (ADDENDUM TO--FINAL
TECHNICAL REPORT ON PULSED RADIATION EFFECTS ON QUARTZ CRYSTAL
OSCILLATORS) (U), 35 P., (U)

TREE: 367

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16800

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copy: 1 id: 49679-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16958

ADNO: 853205L

AUTH: SAYLE W.E. ; FUSCH R.K. ; BROWN R.R.

CLSS: U

CONN: N 00228 67 C 2721

CORP: BOEING CO. (SEATTLE, WASH.)

DATE: 6902

DESC: SURVEY

DESC: Nuclear Weapon Effects ship systems surface ships L1

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L1 TRANSISTOR

REPN: D2 125969 1 ; NRDL TRC 68 68

SUJO: 3-122-000 ; 3-221-000

TITL: DISCUSSION OF NUCLEAR RADIATION VULNERABILITY AND HARDENING
PROCEDURES FOR SHIPBOARD AND ASSOCIATED ELECTRONIC SYSTEMS (U), 96
P., (U)

TREE: 310 ; 420

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16958

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copy: 1 id: 49797-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16960

ADNO: 875620

AUTH: BELL D.R. ; LUEDER J.R.

CLSS: U

CCDE: ZZ (AMPLIFIER NEUTRON FAILURE VALUE)

CONN: F 29601 69 C 0044

CORP: LOCKHEED MISSILES AND SPACE CO. (SUNNYVALE, CA.)

DATE: 7008

DESC: SIMULATION (PULSED REACTOR PULSE GENERATOR) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1

709 HYBRID 744 OPERATIONAL AMPLIFIERS

EFFT: TREE

REPN: AFWL TR 70 12 ; D052626

SUJO: 3-213-000
TITL: RADIATION SCREENING TECHNIQUES FOR INTEGRATED CIRCUITS (U), 236 P.,
(U)

TREE: 320 ; 610

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16960

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16961

ADNO: 871169

AUTH: JUST R.

CLSS: U

CONN: DA 28 043 AMC 00230 (E)

CORP: ELECTROSPACE CORP. (GLEN COVE, N.Y.)

DATE: 7005

DESC: EXPERIMENTAL

DESC: test instruments nuclear radiation dosimeters radiacs L1

REPN: 3106 FR ; ECOM 00230 F

SUJO: 4-346-000

TITL: DEVELOPMENT AND CONSTRUCTION OF AN ADVANCED DEVELOPMENT MODEL OF
COMPUTER-INDICATOR, RADIAC CP-696 (XE-1)/UD (U), 15 P., (U)

TREE: 655

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16961

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 17489

AUTH: HESELDEN A.J.M. ; GRIFFITSH L.G.

CLSS: U

CORP: FIRE RESEARCH STATION

DATE: 6901

DESC: test instruments thermal temperature L1

DESC: EXPERIMENTAL

LA: UK

REPN: FR NOTE 747

SUJO: 4-384-000

TITL: FURTHER EXPERIMENTS WITH WOOD BLOCK RADIOMETERS INCLUDING THE
RESPONSE TO A SKEWED PULSE OF RADIATION (U), 15 P., (U)

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17489

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copy: 1 id: 50299-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 17907
ADNO: 860859
AUTH: PARK J.F. ; HOWARD E.B. ; BAIR W.J.
CLSS: U
CONN: D.O. (29 601) 66 3069
CORP: BATTELLE MEMORIAL INSTITUTE (RICHLAND, WASH.)
DATE: 6910
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1 ALSO PU 239
DESC: EXPERIMENTAL
REPN: AFWL TR 69 75
SUJO: 3-312-220
TITL: ACUTE TOXICITY OF INHALED 238 PUO 2 IN BEAGLE DOGS (U), 74 P., (U)

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copy: 1 id: 50669-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 18295
AUTH: NELSON D.J. ; EVANS F.C.
CLSS: U
CORP: ATOMIC ENERGY COMMISSION
DATE: 6903
DESC: CONTAINS 90 PAPERS ; SURVEY
DESC: Nuclear Weapon Effects ecological L1
DESC: Environmental Impact Assessments EIS Supporting Data L1
DESC: Nuclear Weapon Effects on animals ionizing radiation L1
DESC: Nuclear Weapon Effects on plants ionizing radiation L1
REPN: CONF 670503 ; RADECO CONF 1967
SUJO: 3-312-000 ; 3-332-000 ; 3-341-000 ; 4-870-200
TITL: SYMPOSIUM ON RADIOECOLOGY (U), 775 P., (U)

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copy: 1 id: 51043-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 18295-120
AUTH: WITHERSPOON J.P.
CLSS: U
CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TN.)
DATE: 6903
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on plants ionizing radiation prompt L1

EFFT: NETURON
SUJO: 3-332-100
SYMJ: SYMPOSIUM ON RADIOECOLOGY
TTTL: RADIOSENSITIVITY OF FOREST TREE SPECIES TO ACUTE FAST NEUTRON
RADIATION (U), 6 P., (U)

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18295-120

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copy: 1 id: 51045-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18295-346
AUTH: WELANDER A.D.
CLSS: U
CORP: UNIVERSITY OF WASHINGTON (SEATTLE, WASH.)
DATE: 6903
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
DESC: EXPERIMENTAL
SUJO: 3-312-220
SYMJ: SYMPOSIUM ON RADIOECOLOGY
TTTL: DISTRIBUTION OF RADIONUCLIDES IN THE ENVIRONMENT OF ENIWETOK AND
BIKINI ATOLLS, AUGUST 1964 (U), 8 P., (U)

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18295-346

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copy: 1 id: 51046-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18295-493
AUTH: WOLFE D.A. ; SCHELSKE C.L.
CLSS: U
CORP: BUREAU OF COMMERCIAL FISHERIES (BEAUFORT, N.C.)
DATE: 6903
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1 SR-90 CS-137
DESC: EXPERIMENTAL
SUJO: 3-312-220
SYMJ: SYMPOSIUM ON RADIOECOLOGY
TTTL: ACCUMULATION OF FALLOUT RADIOISOTOPES BY BIVALVE MOLLUSCS FROM THE
LOWER TRENT AND NEUSE RIVERS (U), 11 P., (U)

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18295-493

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copy: 1 id: 51047-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18295-644
AUTH: JACKSON W.B. ; CARPENTER M.L.
CLSS: U
CORP: BOWLING GREEN STATE UNIVERSITY (BOWLING GREEN, OH.)
DATE: 6903
DESC: Nuclear Weapon Effects ecological L1
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
DESC: EXPERIMENTAL
SUJO: 3-312-220 ; 3-341-000
SYMJ: SYMPOSIUM ON RADIOECOLOGY
TITL: RADIOISOTOPE CYCLING IN TERRESTRIAL COMMUNITIES AT ENIWETOK ATOLL
(U), 7 P., (U)

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18295-644

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copy: 1 id: 51050-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18295-696
AUTH: KORANDA J.J.
CLSS: U
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6903
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake
L1

DESC: EXPERIMENTAL
SHOT: SEDAN
TSHO: UG-VENTED
SUJO: 2-223-100 ; 3-332-220
SYMJ: SYMPOSIUM ON RADIOECOLOGY
TITL: RESIDUAL TRITIUM AT SEDAN CRATER (U), 12 P., (U)

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18295-696

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 18304
AUTH: SACHER G.A. ; STORER J.B.
CLSS: U
CORP: ARGONNE NATIONAL LAB. (ARGONNE, IL.)
DATE: 7012
DESC: Nuclear Weapon Effects on animals ionizing radiation L1
DESC: SURVEY

REPN: ANL 7811
SUJO: 3-312-000
TITL: CONFERENCE ON THE ESTIMATION OF LOW-LEVEL RADIATION EFFECTS IN HUMAN
POPULATIONS (U), 42 P., (U)

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18304
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copy: 1 id: 51060-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 18383
ABS: See abstract for DASIAC 18342.
AUTH: PASTERNAK A.D.
CLSS: CRD
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6907
DESC: EXPERIMENTAL
DESC: Nuclear Test Simulation Field Programs experiment design stemming
containment line of sight LOS L1

REPN: UCRL 50719
SHOT: PACKARD
SUJO: 4-829-700
TEMP: A6128
TITL: RESULTS OF GAS SAMPLING ON THE PACKARD LINE-OF-SIGHT EVENT (U), 12
P., (CRD)

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18383
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copy: 1 id: 51167-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 18388
AUTH: RAMSPOTT L.D.
CLSS: CFRD
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7005
DESC: EXPERIMENTAL SURVEY
DESC: Nuclear Weapon Environment Ground Shock cavities subsidence collapse
L1

REPN: UCRL 50883
TSHO: UG-CONTAINED
SUJO: 2-627-000
TEMP: A6122
TITL: EMPIRICAL ANALYSIS OF THE PROBABILITY OF FORMATION OF A COLLAPSE
CRATER BY AN UNDERGROUND NUCLEAR EXPLOSION (U), 40 P., (CFRD)

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18388
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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18422
CLSS: SRD CNWDI
CORP: SANDIA LAB (LIVERMORE, CA.) ; LAWRENCE RADIATION LAB. (LIVERMORE,
CA.)
DATE: 6902
DESC: EXPERIMENTAL TABULAR
DESC: Nuclear Weapon Effects ordnance bombs mines warheads nuclear L1
DESC: Nuclear weapon safety operational in-field use reliability broken
arrows L1
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
REPN: SCL WD 68 52 ; RS 8232/23172
TSHO: UG-CONTAINED
SOCE: W68
SUJO: 3-161-100 ; 4-836-000 ; 4-838-600
SYST: MK 3 RV ; POSEIDON
TEMP: A6175
TITL: INTERIM DEVELOPMENT REPORT ON THE W68 WARHEAD (U), 94 P., (SRD
CNWDI)

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copy: 1 id: 51206-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18424
CLSS: SRD CNWDI
CORP: SANDIA LAB (LIVERMORE, CA.) ; LAWRENCE RADIATION LAB. (LIVERMORE,
CA.)
DATE: 7006
DESC: Nuclear weapon safety operational in-field use reliability broken
arrows L1
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: TABULAR
REPN: SCL WD 68 122 ; RS 8232/25081
SOCE: W71
SUJO: 4-836-000 ; 4-838-600
SYST: SPARTAN
TEMP: A6178
TITL: PRELIMINARY DEVELOPMENT REPORT ON THE W71 WARHEAD (U), 100 P., (SRD
CNWDI)

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18424

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copy: 1 id: 51208-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18438
AUTH: NETHAWAY D.R.
CLSS: SRD CNWDI
CORP: LAWRENCE RADIATION LAB (LIVERMORE, CA.)
DATE: 6907
DESC: EXPERIMENTAL
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: Nuclear weapon test yield L1
REPN: UCRL 50681
SHOT: STODDARD
TSHO: UG-CONTAINED
SOCE: [REDACTED]
SUJO: 4-835-000 ; 4-836-000
TEMP: A6206
TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON STODDARD EVENT OF OPERATION
BOWLING (U), 186 P., (SRD CNWDI)

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copy: 1 id: 51222-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18464
CLSS: SRD CNWDI
CORP: SANDIA LAB (LIVERMORE, CA.) ; LAWRENCE RADIATION LAB (LIVERMORE,
CA.)
DATE: 6902
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: Nuclear weapon safety operational in-field use reliability broken
arrows L1
DESC: TABULAR
DESC: Nuclear Weapon Effects reentry systems RV L5
EFFT: X-RAY ; IEMP
REPN: SCL WD 66 32 ; RS 8232 2/16899
SOCE: W62
SUJO: 3-113-000 ; 4-836-000 ; 4-838-600
SYST: MK 12 ; MINUTEMAN III
TEMP: A6232
TITL: INTERIM DEVELOPMENT REPORT ON THE W62 WARHEAD (U), 126 P., (SRD
CNWDI)

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copy: 1 id: 51249-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18469
AUTH: ZINK J.W.
CLSS: SRD CNWDI
CCDE: HANC (OPACITY) LLL
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 7002
DESC: equation of state heat of vaporization thermal conductivity opacity
L1 OPACITY
DESC: THEORY CODE
REPN: UCRL 50813
SUJO: 9-710-000
TEMP: A6302
TITL: METHOD OF CALCULATING OPACITY (U), 81 P., (SRD CNWDI)

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copy: 1 id: 51254-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18476
AUTH: STUDDT P.L.
CLSS: SRD
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 7008
DESC: EXPERIMENTAL
DESC: equation of state heat of vaporization thermal conductivity opacity
L1
DESC: Nuclear Weapon Effects reentry systems RV materials shielding L1
TROUT
EFFT: X-RAY
REPN: UCRL 50919
SHOT: HUPMOBILE ; MIDI MIST
TSHO: UG-CONTAINED
SUJO: 3-113-230 ; 9-710-000
TEMP: A6305
TITL: TROUT PERFORMANCE (U), 20 P., (SRD)

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copy: 1 id: 51261-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18477
AUTH: OAKLEY D. ; ERICKSON L. ; PARKER N. ; LASKARIS G.
CLSS: SRD
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 7011
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects ordnance bombs mines warheads nuclear L1
DESC: Nuclear Weapon Effects ordnance explosives L1
DESC: Nuclear Test Simulation Field Programs experiment design x-ray
experiments L1

EFFT: X-RAY
REPN: UCRL 50965
SHOT: PACKARD
TSHO: UG-CONTAINED

SOCE: [REDACTED]
SUJO: 3-161-100 ; 3-163-000 ; 4-820-500
TEMP: A6306
TTTL: CLASSIFIED TITLE (U) 33 P., (SRD)

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18477

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copy: 1 id: 51262-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 18500
AUTH: MORROW R.J.
CLSS: SRD CNWDI
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6902
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1

DESC: Nuclear weapon test yield L1

DESC: EXPERIMENTAL

REPN: UCRL 50644

SHOT: SPOON

TSHO: UG-CONTAINED

SOCE: [REDACTED]

SUJO: 4-835-000 ; 4-836-000

TEMP: A6283

TTTL: CLASSIFIED TITLE (U), 68 P., (SRD CNWDI)

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copy: 1 id: 51285-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 18501
AUTH: DOBSON D.A. ; SELDEN R.W. ; FRANK W.J.

CLSS: SRD CNWDI
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6904
DESC: TABULAR
DESC: Nuclear weapon program management documents L5
DESC: Nuclear weapon basic design L1
REPN: UCRL 50628
SUJO: 4-830-500 ; 4-831-000
TEMP: A6284
TTTL: POSTSHOT ACTIVITIES OF THE NTH COUNTRY EXPERIMENT (U), 79 P., (SRD CNWDI)

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18501

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copy: 1 id: 51286-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 18502
AUTH: MODE V.A.
CLSS: SRD CNWDI
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6906
DESC: Nuclear weapon test yield L1
DESC: Nuclear weapon test device physical operation construction geometry materials components L1
DESC: EXPERIMENTAL
REPN: UCRL 50671
SHOT: VAT
TSHO: UG-CONTAINED
SOCE: XXXXXXXXXX
SUJO: 4-835-000 ; 4-836-000
TEMP: A6285
TTTL: CLASSIFIED TITLE (U), 40 P., (SRD CNWDI)

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18502

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copy: 1 id: 51287-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 18503
AUTH: ROHY D.A.
CLSS: SRD CNWDI
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6906
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1
DESC: EXPERIMENTAL
DESC: test instruments x-ray effects L1
REPN: UCRL 50606

SHOT: HUDSON SEAL
TSHO: UG-CONTAINED
SUJO: 1-620-000 ; 4-330-000
TEMP: A6286
TTTL: THERMOPILE-FLUORESCER EXPERIMENT IN THE HUDSON SEAL EVENT (U), 23
P., (SRD CNWDI)
TREE: 930

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18503
.endblock
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copy: 1 id: 51288-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 18504
AUTH: IDE R.H.
CLSS: SRD CNWDI
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6906
DESC: Nuclear weapon test device physical operation construction geometry

materials components L1

DESC: Nuclear weapon test yield L1

DESC: EXPERIMENTAL

REPN: UCRL 50154

SHOT: CORDUROY

TSHO: UG-CONTAINED

SOCE: [REDACTED]

SUJO: 4-835-000 ; 4-836-000

TEMP: A6287

TTTL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE CORDUROY EVENT OF
OPERATION FLINTLOCK (U), 127 P., (SRD CNWDI)

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18504
.endblock
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copy: 1 id: 51289-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 18505
AUTH: MAIMONI A. ; GAMBLE D.P.
CLSS: SRD
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6907
DESC: Cross Sections x-ray L1
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects reentry systems RV materials shielding L1

TROUT

REPN: UCRL 50700 PT. 1
SHOT: MIDI MIST ; TAPESTRY
TSHO: UG-CONTAINED

SUJO: 3-113-230 ; 9-840-000
TEMP: A6288
TITL: CLASSIFIED TITLE (U), 35 P., (SRD)
TREE: 413

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18505

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copy: 1 id: 51290-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 18506
AUTH: HICKS H.G.
CLSS: SRD CNWDI
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6908
DESC: Nuclear weapon test yield L1
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1

DESC: THEORY EXPERIMENTAL

REPN: UCRL 50620

SHOT: CHETCO

TSHO: LOW-ALT

SOCE: [REDACTED]

SUJO: 4-835-000 ; 4-836-000

TEMP: A6289

TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE CHETCO EVENT OF
OPERATION DOMINIC (U), 83 P., (SRD CNWDI)

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18506

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copy: 1 id: 51291-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 18507
AUTH: HICKS H.G.
CLSS: SRD CNWDI
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6908
DESC: EXPERIMENTAL
DESC: Nuclear weapon test yield L1
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1

REPN: UCRL 50615

SHOT: YUKON

TSHO: LOW-ALT

SOCE: [REDACTED]

SUJO: 4-835-000 ; 4-836-000

TEMP: A6290

TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE YUKON EVENT OF
OPERATION DOMINIC (U), 112 P., (SRD CNWDI)

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copy: 1 id: 51292-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 18508

AUTH: HICKS H.G.

CLSS: SRD CNWDI

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)

DATE: 6911

DESC: Nuclear weapon test device physical operation construction geometry
materials components L1

DESC: EXPERIMENTAL

DESC: Nuclear weapon test yield L1

REPN: UCRL 50591

SHOT: BOXCAR

TSHO: UG-CONTAINED

SOCE: [REDACTED]

SUJO: 4-835-000 ; 4-836-000

TEMP: A6291

TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE BOXCAR EVENT OF
OPERATION CROSSITE (U), 131 P., (SRD CNWDI)

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copy: 1 id: 51293-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 18526

AUTH: GAYNOR R.E. ; CATES H.T.

CLSS: U

CONN: BTL 600814

CORP: MARTIN MARIETTA CO. (ORLANDO, FL.)

DATE: 6908

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 DIODES SCR-S TRANSISTORS

DESC: SIMULATION (FLASH X-RAY; LINAC) ; EXPERIMENTAL

EFFT: TREE

REPN: CREG 69 3

SUJO: 3-221-000

TITL: TRANSISTOR RADIATION TESTING AND EVALUATION OF SPRINT ALTERNATE
SOURCE SEMICONDUCTOR PARTS (U), 115 P., (U)

TREE: 310

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18526

.endblock

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copy: 1 id: 51310-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18575
AUTH: AMSDEN A.A.
CLSS: SRD CNWDI
CCDE: MESA (RADIATION HYDRO -2D WEAPON DESIGN) LASL
CONN: W 7405 ENG 36
CORP: LOS ALAMOS SCIENTIFIC LAB. (LOS ALAMOS, N.M.)
DATE: 6910
DESC: Fluid Mechanics hydrodynamics L1
DESC: Nuclear weapon basic design L1
DESC: THEORY CODE
REPN: LA 4216
SUJO: 4-831-000 ; 9-410-000
TEMP: A5496
TTTL: MESA -A PIC PROGRAM FOR CALCULATING FLUID DYNAMICS PROBLEMS WITH
IMPLICIT RADIATION DIFFUSION (U), 210 P., (SRD CNWDI)

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18575

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copy: 1 id: 51350-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18630
AUTH: MORIMOTO E.M.
CLSS: SRD CNWDI
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6901
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: Nuclear weapon test yield L1
DESC: EXPERIMENTAL
REPN: UCRL 50543
SHOT: PAISANO
TSHO: UG-CONTAINED
SOCE: XXXXXXXXXX
SUJO: 4-835-000 ; 4-836-000
TEMP: A6241
TTTL: CLASSIFIED TITLE (U), 46 P., (SRD CNWDI)

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copy: 1 id: 51410-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 18631
AUTH: HICKS H.G.
CLSS: SRD CNWDI
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6901
DESC: THEORY EXPERIMENTAL
DESC: Nuclear weapon test yield L1
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
REPN: UCRL 50556
SHOT: TRUCKEE
TSHO: LOW-ALT
SOCE: XXXXXXXXXX
SUJO: 4-835-000 ; 4-836-000
SYST: POLARIS ; MK 2 RV
TEMP: A6242
TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE TRUCKEE EVENT OF THE
DOMINIC PROGRAM (U), 93 P., (SRD CNWDI)

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18631

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copy: 1 id: 51411-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18632
CLSS: SRD CNWDI
CORP: SANDIA LABORATORIES (LIVERMORE, CA.) ; LAWRENCE RADIATION LAB.
(LIVERMORE, CA.)

DATE: 7002
DESC: TABULAR
DESC: Nuclear weapon test device physical operation construction geometry
materials components L5
DESC: Nuclear weapon safety operational in-field use reliability broken
arrows L1

REPN: SCL WD 67 13 ; RS 8232 2/16114
SOCE: W-70
SUJO: 4-836-000 ; 4-838-600
SYST: LANCE
TEMP: A6244
TITL: PRELIMINARY DEVELOPMENT REPORT ON THE W70 WARHEAD (U), 86 P., (SRD
CNWDI)

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copy: 1 id: 51412-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18712
CLSS: SRD CNWDI
CORP: SANDIA LABORATORIES (LIVERMORE, CA.) ; LAWRENCE RADIATION LAB.
(LIVERMORE, CA.)
DATE: 7004
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: TABULAR
DESC: Nuclear weapon test yield L1 P 10
REPN: SCL DR 70 35 ; RS 8232 2/29530
SOCE: W-68
SUJO: 4-835-000 ; 4-836-000
SYST: MK 3 RV
TEMP: A6527
TITL: FEASIBILITY STUDY OF A NEW WARHEAD FOR THE MK 3 RB (U) 18 P., (SRD
CNWDI)

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18712

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copy: 1 id: 51492-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 18732
AUTH: GAYNOR R.E. ; CATES H.T.
CLSS: U
CONN: WECO GR 3000
CORP: MARTIN MARIETTA CORP. (ORLANDO, FL.)
DATE: 7008
DESC: Nuclear Weapon Effects missile systems ABM electronics L1 SPRINT
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 JFET SCR-S
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
OPERATIONAL AMPLIFIER
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DTL-S FLIP-FLOP
DESC: SIMULATION (LINAC FLASH X-RAY) ; EXPERIMENTAL
EFFT: GAMMA
REPN: CREG 70 9
SUJO: 3-112-230 ; 3-213-000 ; 3-221-000 ; 3-222-000
TITL: TRANSIENT RADIATION QUALIFICATION TESTING OF LPE REDESIGN
SEMI-CONDUCTORS (U), 45 P., (U)
TREE: 320 ; 310

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.endblock

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copy: 1 id: 51512-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 18733
AUTH: GAYNOR R.E. ; CATES H.T.
CLSS: U
CONN: WECO GR 3000
CORP: MARTIN MARIETTA CORP. (ORLANDO, FL.)
DATE: 7009
DESC: SIMULATION (LINAC ELECTRICAL HARDNESS TESTINGS)
DESC: Nuclear Weapon Effects missile systems ABM electronics L1 SPRINT
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 ZENER DIODES TRANSISTORS
REPN: CREG 70 8
SUJO: 3-112-230 ; 3-221-000
TITL: TRANSIENT RADIATION EVALUATION; ALTERNATE SOURCE PROGRAM (U), 52 P.,
(U)

TREE: 310

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18733

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copy: 1 id: 51513-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 18734
AUTH: GAYNOR R.E. ; CATES H.T.
CLSS: U
CONN: WECO GR 3000
CORP: MARTIN MARIETTA CORP. (ORLANDO, FL.)
DATE: 7009
DESC: SIMULATION (LINAC) ELECTRICAL HARDNESS TESTING ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 ZENER DIODES TRANSISTORS SCR
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
FLIP FLOP SWITCH 2
DESC: Nuclear Weapon Effects missile systems ABM electronics L1 SPRINT
EFFT: TREE
REPN: CREG 70 11
SUJO: 3-112-230 ; 3-221-000 ; 3-222-000
TITL: TRANSIENT GAMMA RADIATION EVALUATION; ALTERNATE SOURCE PROGRAM (U),
52 P., (U)

TREE: 310 ; 320

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18734

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copy: 1 id: 51514-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 18735
AUTH: GAYNOR R.E. ; CATES H.T.
CLSS: U

CONN: WECO GR 3000
CORP: MARTIN MARIETTA CORP. (ORLANDO, FL.)
DATE: 7010
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
LOGIC CIRCUIT LEVEL DETECTOR RAMP GENERATOR RIPPLE CONNECTOR
FLIP-FLOP BUFFER
DESC: Nuclear Weapon Effects missile systems ABM electronics L1 SPRINT
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
OPERATIONAL AMPLIFIER
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 JFET
EFFT: TREE
REPN: CREG 70 12
SUJO: 3-112-230 ; 3-213-000 ; 3-221-000 ; 3-222-000
TITL: TRANSIENT RADIATION TESTING OF LPEC INTEGRATED CIRCUITS (U), 37 P.,
(U)

TREE: 320
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18735
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copy: 1 id: 51515-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 18737
AUTH: GAYNOR R.E. ; CATES H.T.
CLSS: U
CONN: WECO E3388803841
CORP: MARTIN MARIETTA CORP. (ORLANDO, FL.)
DATE: 7009
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS SCR-S
DESC: Nuclear Weapon Effects missile systems ABM electronics L1 SPRINT
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DIODE TRANSISTOR LOGIC
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
OPERATIONAL AMPLIFIERS
EFFT: GAMMA
REPN: CREG 70 1 REV.
SUJO: 3-112-230 ; 3-213-000 ; 3-221-000 ; 3-222-000
TITL: SEMICONDUCTOR TRANSIENT GAMMA RADIATION EVALUATION OF SPRINT LPEC
REDESIGN CANDIDATE DEVICES (U), CA. 45 P., (U)
TREE: 310 ; 320 ; 392
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18737
.endblock
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copy: 1 id: 51517-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 18755
AUTH: CATES H.T.
CLSS: U
CONN: WECO GR 3000
CORP: MARTIN MARIETTA CORP. (ORLANDO, FL.)
DATE: 7000
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 SCR
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1 POWER SUPPLY CROWBAR CIRCUIT DRIVER CIRCUIT
DESC: SIMULATION (FLASH X-RAY LINAC) ELECTRICAL HARDNESS TESTING ;
EXPERIMENTAL
DESC: Nuclear Weapon Effects missile systems ABM electronics L1 SPRINT
EFFT: TREE
REPN: CREG 70 5
SUJO: 3-112-230 ; 3-219-000 ; 3-221-000
TITL: TRANSIENT RADIATION TESTING OF THE LPEC POWER SUPPLY SCR CROWBAR
CIRCUIT AND DRIVER CIRCUIT (U), 40 P., (U)
TREE: 389

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18755

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copy: 1 id: 51531-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 18756
AUTH: CARLSON E. ; FRENCH W.E.
CLSS: U
CORP: AEROJET NUCLEAR SYSTEMS CO.
DATE: 7005
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL SUMMARY
DESC: Nuclear Weapon Effects electronic pieceparts L1 TEST SUMMARY
DESC: test instruments thermal temperature L1 THERMOCOUPLER RESISTANCE
THERMOMETERS
DESC: Nuclear Weapon Effects materials metals alloys L1 AL TI HASTELLOY
INCONEL H MONEL RENE 41 WASPALOY UDIMET 630 STEEL BE BEARING CASE
MATERIAL
DESC: test instruments test hardware pressure stress L1 PRESSURE
TRANSDUCERS STRAIN GAGES
DESC: test instruments test hardware blast shock L1 TEST SUMMARY
DESC: test instruments test hardware acceleration measurement L1
ACCELEROMETERS
DESC: Nuclear Weapon Effects electrical mechanical L1 TEST SUMMARY
EFFT: TREE
REPN: S110 SR01 W181
SUJO: 3-220-000 ; 3-230-000 ; 3-243-000 ; 4-310-000 ; 4-311-000 ;
4-314-000 ; 4-384-000
TITL: NERVA RADIATION EFFECTS SUMMARY REPORT (U), 175 P., (U)

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18756
.endblock
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copy: 1 id: 51532-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 18762
AUTH: GAYNOR R.E. ; CATES H.T.
CLSS: U
CONN: WECO GR 3000
CORP: MARTIN MARIETTA CORP. (ORLANDO, FL.)
DATE: 7010
DESC: Nuclear Weapon Effects missile systems ABM electronics L1 SPRINT
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
OPERATIONAL AMPLIFIER
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
EFFT: GAMMA
REPN: CREG 70 24
SUJO: 3-112-230 ; 3-213-000
TITL: GAMMA DOT RADIATION EFFECTS TESTING OF LPEC I.C. LINEAR CIRCUITS
(U), 35 P., (U)
TREE: 320

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18762
.endblock
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copy: 1 id: 51538-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 18763
AUTH: GAYNOR R.E.
CLSS: U
CONN: WECO GR 3000
CORP: MARTIN MARIETTA CORP. (ORLANDO, FL.)
DATE: 7012
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
LEVEL DETECTOR SAMPLE + HOLD CIRCUIT CRYSTAL OSCILLATOR VOLTAGE
REGULATOR
DESC: Nuclear Weapon Effects missile systems ABM electronics L1 SPRINT
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
DIFFERENTIAL AMPLIFIER DEGENERATE AMPLIFIER
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
EFFT: GAMMA
REPN: CREG 70 25
SUJO: 3-112-230 ; 3-213-000 ; 3-222-000
TITL: GAMMA DOT RADIATION TESTING OF THE LINEAR I.C. LPEC CIRCUITS (U), 40
P., (U)
TREE: 320

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18763

.endblock

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copy: 1 id: 51539-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 18766
AUTH: CATES H.T.
CLSS: U
CONN: WECO GR 3000
CORP: MARTIN MARIETTA CORP. (ORLANDO, FL.)
DATE: 7003
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 SURGE ARRESTOR
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS
DESC: Nuclear Weapon Effects missile systems ABM electronics L1 SPRINT
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
SURGE ARRESTOR CIRCUIT
DESC: SIMULATION (LINAC) ELECTRICAL HARDNESS TESTING ; EXPERIMENTAL
EFFT: TREE
REPN: CREG 70 6
SUJO: 3-112-230 ; 3-221-000 ; 3-222-000 ; 3-229-000
TITL: TRANSIENT RADIATION EVALUATION; ALTERNATE SOURCE PROGRAM (U), 51 P.,
(U)
TREE: 430 ; 310 ; 392

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18766

.endblock

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copy: 1 id: 51542-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 18768
ADNO: 461422
AUTH: POWERS R.C.
CLSS: U
CONN: DA 49 186 AMC 33 (X)
CORP: ELECTRO-MECHANICAL RESEARCH, INC. (COLLEGE PARK, MD.)
DATE: 6900
DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1 VOLTAGE CONTROLLED OSCILLATOR TUNNEL DIODE RELAXATION
OSCILLATOR TUNNEL DIODE FLIP-FLOP NUVISTOR BUFFER
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 NUVISTOR
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 DIODES TRANSISTORS
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
OUTPUT AMPLIFIER
EFFT: TREE

REPN: N65 26949
SUJO: 3-213-000 ; 3-219-000 ; 3-221-000 ; 3-229-000
TTTL: RADIATION TOLERANT VCO DEVELOPMENT PROGRAM (U), CA. 50 P., (U)
TREE: 369

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18768

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copy: 1 id: 51544-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 18793
AUTH: LAWRENCE R.J.
CLSS: SRD
CORP: SANDIA LABORATORIES (ALBUQUERQUE, N.M.)
DATE: 6906
DESC: Nuclear Weapon Effects reentry systems RV materials heatshield L1
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L5 P 23
DESC: TABULAR
REPN: SC RR 69 282 ; RS 5160/071
SOCE: SPARTAN
SUJO: 1-620-000 ; 3-113-220
TEMP: A5963
TTTL: ON THE DYNAMIC MATERIAL RESPONSE OF TARGETS TO TIME DEPENDENT
RADIATION ENVIRONMENTS (U), 38 P., (SRD)

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18793

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copy: 1 id: 51569-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 18795
AUTH: RENKEN J.H. ; ADAMS K.G.
CLSS: SRD
CORP: SANDIA LABORATORIES (ALBUQUERQUE, N.M.)
DATE: 6903
DESC: THEORY TABULAR
DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L1

DESC: Radiation Transport x-ray L1

REPN: SC RR 69 37 ; RS 3410/1347

SOCE: [REDACTED]

SUJO: 1-610-000 ; 9-640-000

TEMP: A5965

TTTL: CLASSIFIED TITLE (U) 90 P., (SRD)

TREE: 930

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18795

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copy: 1 id: 51571-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 18860

AUTH: RYDER H.A.

CLSS: SRD CNWDI

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)

DATE: 6907

DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1

DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L1

DESC: EXPERIMENTAL

DESC: Nuclear weapon test burn performance L1

REPN: UCRL 50702

SHOT: PACKARD ; CYPRESS ; CREW

TSHO: UG-CONTAINED

SOCE: [REDACTED]

SUJO: 1-610-000 ; 1-620-000 ; 4-837-000

TEMP: A6579

TTTL: SLOW DIAGNOSTICS IN THE CYPRESS, PACKARD, AND CREW EVENTS (U) 40 P.,
(SRD CNWDI)

TREE: 930

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18860

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copy: 1 id: 51635-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 18861

AUTH: CLARK A.F. ; HANSEN N.E. ; SMITH D.E. ; WEST B.G.

CLSS: SRD CNWDI

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)

DATE: 6907

DESC: test instruments x-ray effects L1

DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1

DESC: THEORY EXPERIMENTAL

REPN: UCRL 50733

SHOT: HUPMOBILE

TSHO: UG-CONTAINED

SOCE: [REDACTED]

SUJO: 1-620-000 ; 4-330-000

TEMP: A6580

TTTL: HUPMOBILE CLOUD-CHAMBER EXPERIMENT (U) 67 P., (SRD CNWDI)

TREE: 930

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18861

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copy: 1 id: 51636-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 18862
AUTH: KUCKUCK R.W.
CLSS: SRD CNWDI
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6909
DESC: test instruments x-ray effects L1
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1
DESC: THEORY EXPERIMENTAL
REPN: UCRL 50758
SHOT: HUDSON SEAL
TSHO: UG-CONTAINED
SOCE: [REDACTED]
SUJO: 1-620-000 ; 4-330-000
TEMP: A6581
TTTL: GAMMA SPECTRUM MEASUREMENT ON HUDSON SEAL EVENT (U) 40 P., (SRD
CNWDI)
TREE: 930

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18862
.endblock
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copy: 1 id: 51637-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 18863
AUTH: GATHERS G.R.
CLSS: SRD
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6910
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L5 P 4
DESC: Radiation Transport x-ray L1
DESC: Nuclear Test Simulation Field Programs experiment design x-ray
experiments L1
DESC: THEORY EXPERIMENTAL
REPN: UCRL 50769
SHOT: ILDRIM
TSHO: UG-CONTAINED
SUJO: 1-620-000 ; 4-820-500 ; 9-640-000
TEMP: A6582
TTTL: CLASSIFIED TITLE (U) 25 P., (SRD)
TREE: 980

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18863
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copy: 1 id: 51638-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 18864
AUTH: RYDER H.A. ; RICHARDS L.M.
CLSS: SRD CNWDI
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6911
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1
DESC: EXPERIMENTAL
DESC: test instruments x-ray effects L5
REPN: UCRL 50757
SHOT: HUDSON SEAL
TSHO: UG-CONTAINED
SUJO: 1-620-000 ; 4-330-000
TEMP: A6583
TITL: SLOW DIAGNOSTICS IN THE HUDSON SEAL EVENT (U) 17 P., (SRD CNWDI)
TREE: 930

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copy: 1 id: 51639-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 18866
AUTH: RYDER H.A. ; ROHY D.A. ; RICHARDS L.M.
CLSS: SRD CNWDI
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6912
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1
DESC: EXPERIMENTAL
REPN: UCRL 50785
SHOT: MING VASE
TSHO: UG-CONTAINED
SUJO: 1-620-000
TEMP: A6585
TITL: SLOW-DIAGNOSTICS EXPERIMENT IN THE MING VASE EVENT (U) 29 P., (SRD
CNWDI)
TREE: 930

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copy: 1 id: 51641-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 18867
AUTH: STUDDT P.L.
CLSS: SRD

CCDE: VIOLET (X-RAY DEPOSITION) LLL
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 7007
DESC: Nuclear Weapon Effects reentry systems RV materials shielding L1
TROUT
DESC: EXPERIMENTAL TABULAR
EFFT: X-RAY
REPN: UCRL 50700 PT. 2
SHOT: MIDI MIST ; HUPMOBILE
TSHO: UG-CONTAINED
SUJO: 3-113-230
TEMP: A6586
TITL: TROUT--EXPERIMENTAL RESULTS FROM MIDI MIST AND HUPMOBILE (U) 29 P.,
(SRD)

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copy: 1 id: 51642-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18869
AUTH: DUPREE S.A. ; ABBOTT J.L.
CLSS: SRD CNWDI
CORP: NAVAL WEAPONS EVALUATION FACILITY (ALBUQUERQUE, N.M.)
DATE: 7006
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1
DESC: Nuclear Weapon Environment Initial Gamma energy spectrum L1
DESC: Nuclear Weapon Effects missile systems tactical L1
DESC: Nuclear Weapon Effects ordnance bombs mines warheads nuclear L1
DESC: TABULAR
EFFT: NEUTRON ; TREE
REPN: NWEF REPORT 1067
SOCE: MK 3
SUJO: 1-120-000 ; 1-720-000 ; 3-112-300 ; 3-161-100
SYST: TALOS MISSILE
TEMP: A6730
TITL: TALOS MISSILE NUCLEAR WARHEAD RADIATION VULNERABILITY AND
ENVIRONMENT (U) 54 P., (SRD CNWDI)
TREE: 920

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18869

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 19024
AUTH: BORELLA H.M.
CLSS: SRD

CORP: EG+G (SANTA BARBARA, CA.)
DATE: 6901
DESC: THEORY EXPERIMENTAL TABULAR
DESC: test instruments x-ray effects L1
DESC: test instruments nuclear radiation dosimeters radiacs L1
DESC: Simulation Facilities Techniques TREE L1
DESC: test instruments nuclear radiation gamma L1
REPN: EGG S 197 P
SUJO: 4-272-000 ; 4-330-000 ; 4-341-000 ; 4-346-000
TEMP: A6920
TITL: PASSIVE DOSIMETRY SUPPORT FOR WEAPONS EFFECTS EXPERIMENTS (U) 132
P., (SRD)

TREE: 651 ; 653

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19024

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copy: 1 id: 51799-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 19029

AUTH: GORDON J.W. ; EAMON J.C. ; BOOK P.S.

CLSS: SRD CNWDI

CORP: KAMAN NUCLEAR (COLORADO SPRINGS, CO.)

DATE: 7012

DESC: Nuclear Weapon Environment Airblast static overpressure
OVERPRESSURE.L1

DESC: TABULAR

DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L1

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1

DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L5

DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1

DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L1

DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1

EFFT: TREE

REPN: KN 70 773 (R) VOL. 3

SUJO: 1-110-000 ; 1-120-000 ; 1-610-000 ; 1-710-000 ; 1-740-000 ;
2-611-000 ; 3-221-000

TEMP: A6926

TITL: NUCLEAR RADIATION THREATS TO NAVAL ELECTRONIC SYSTEMS, VOL. 3 (U),
157 P., (SRD CNWDI)

TREE: 900

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19029

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copy: 1 id: 51803-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 19038
AUTH: FLECK J.A. JR.
CLSS: SRD CNWDI
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6908
DESC: THEORY TABULAR
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1
EMPF: 224
REPN: UCID 15530
TSHO: UG-CONTAINED
SUJO: 2-510-000
TEMP: A6800
TITL: ELECTROMAGNETIC SIGNAL FROM AN UNDERGROUND NUCLEAR BURST (U) 36 P.,
(SRD CNWDI)

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19038

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copy: 1 id: 51812-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 19039
AUTH: MISKEL J.A. ; HICKS H.G.
CLSS: SRD CNWDI
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6901
DESC: Nuclear weapon test yield L1
DESC: EXPERIMENTAL
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
REPN: UCRL 50468
SHOT: CABRIOLET
TSHO: UG-CONTAINED
SOCE: XXXXXXXXXX
SUJO: 4-835-000 ; 4-836-000
TEMP: A6802
TITL: RADIOCHEMICAL DIAGNOSTIC MEASUREMENTS ON THE CABRIOLET EVENT OF
OPERATION CROSSTIE (U) 137 P., (SRD CNWDI)

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copy: 1 id: 51813-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 19105
AUTH: MODE V.A.

CLSS: SRD CNWDI
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6907
DESC: EXPERIMENTAL
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: Nuclear weapon test yield L1
REPN: UCRL 50692
SHOT: CHATTY
TSHO: UG-CONTAINED
SOCE: [REDACTED]
SUJO: 4-835-000 ; 4-836-000
TEMP: A6663
TTTL: CLASSIFIED TITLE (U), 69 P., (SRD CNWDI)

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19105

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copy: 1 id: 51879-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19126
AUTH: PYPER J.W.
CLSS: SRD CNWDI
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6903
DESC: EXPERIMENTAL
DESC: Nuclear weapon test yield L1
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
REPN: UCRL 50498
SHOT: THROW
TSHO: UG-CONTAINED
SOCE: [REDACTED]
SUJO: 4-835-000 ; 4-836-000
TEMP: A6801
TTTL: CLASSIFIED TITLE (U), 57 P., (SRD CNWDI)

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19126

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copy: 1 id: 51900-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19189
AUTH: PYPER J.W.
CLSS: SRD CNWDI
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6905
DESC: Nuclear weapon test device physical operation construction geometry

materials components L1

DESC: EXPERIMENTAL
DESC: Nuclear weapon test yield L1
REPN: UCRL 50497
SHOT: NOOR
TSHO: UG-CONTAINED
SOCE: [REDACTED]
SUJO: 4-835-000 ; 4-836-000
TEMP: A6742
TTTL: RADIOCHEMICAL DIAGNOSTICS MEASUREMENTS ON THE NOOR EVENT OF
OPERATION CROSSTIE(U), 56 P., (SRD CNWDI)

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19189

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copy: 1 id: 51971-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19194

ABS: This report summarizes the results of an analysis of the vulnerability of seven Army aircraft to the effects of nuclear weapons. These results are presented in two ways: first, as sure-safe and sure-kill distances from normal tactical weapons with yields from 0.01 kT to 1 MT; and second, as sure-safe and sure-kill vulnerability envelopes for a 1 kt burst which can be scaled to other yields in the range 0.1 kt to 100 kt. The aircraft analyzed are the OH-65, UH-1D, AG-1G, AH-56A, CH-47C, CH-54A, and OV-1B, and the methodology used considers gust, overpressure, and thermal radiation effects on the pilot. The specific criteria used in arriving at sure-safe and sure-kill distances are summarized. The aircraft were analyzed while parked, flying nap-of-the-earth, and flying above the ground-modified blast wave.

ABS: The results of the latter case are applicable to aircraft flying above the range of small arms fire. Burst locations considered were directly above and directly to the side of each aircraft, and an air visibility of 10 km was assumed. The aircraft were also analyzed when the air visibility was 50 km, but only while flying above ground effects.

CLSS: S

CORP: ARMY COMBAT DEVELOPMENTS COMMAND

DATE: 7007

DESC: TABULAR

DESC: Nuclear Weapon Effects flight systems airplanes structures L1

EFFT: THERMAL ; AIR-BLAST

REPN: ACDC TR 1 70

SUJO: 3-111-100

TEMP: A6906

TTTL: VULNERABILITY OF AIRCRAFT TO THE EFFECTS OF NUCLEAR WEAPONS (U) 174
P., (S)

TNFF: 5820

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19194

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copy: 1 id: 51976-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19196
AUTH: DISTLER T.M. ; JONES D.E. ; PETROCK K.F.
CLSS: SRD CNWDI
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6904
DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L5
DESC: test instruments x-ray effects L1
DESC: EXPERIMENTAL
REPN: UCID 15482
SHOT: MILK SHAKE
TSHO: UG-CONTAINED
SUJO: 1-610-000 ; 4-330-000
TEMP: A6973
TITL: MILK SHAKE TLD EXPERIMENT (U) 20 P., (SRD CNWDI)
TREE: 653

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19196

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copy: 1 id: 51978-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19197
AUTH: KORNBLUN H.N.JR.
CLSS: SRD CNWDI
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6902
DESC: Nuclear Test Simulation Field Programs experiment design x-ray
experiments L1
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1
DESC: test instruments x-ray effects L1
DESC: EXPERIMENTAL
REPN: UCID 15451
SHOT: HUDSON SEAL
TSHO: UG-CONTAINED
SUJO: 1-620-000 ; 4-330-000 ; 4-820-500
TEMP: A6974
TITL: HUDSON SEAL FLUORESCER EXPERIMENT (U) 31 P., (SRD CNWDI)
TREE: 653 ; 930

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19197

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copy: 1 id: 51979-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 19223-149
AUTH: LITTLE E.A.
CLSS: U
CORP: ATOMIC ENERGY RESEARCH ESTABLISHMENT (HARWELL, BERKSHIRE, ENGLAND)
DATE: 7000
DESC: Nuclear Weapon Effects materials metals alloys L1 MILD STEEL
DESC: SIMULATION (REACTOR) TEMP 23-250 DEGREES C ; EXPERIMENTAL
EFFT: NEUTRON
LA: UK
SUJO: 3-243-000
SYMJ: RADIATION EFFECTS, VOL. 5, NOS. 3 AND 4, OCTOBER 1970
TITL: ATHERMAL STRESS COMPONENT IN NEUTRON IRRADIATED MILD STEEL (U), 4
P., (U)

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19223-149

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copy: 1 id: 52005-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 19223-153
AUTH: PANDE B.M. ; GOEDEME G. ; STALS L. ; NIHOUL J.
CLSS: U
DATE: 7000
DESC: Nuclear Weapon Effects materials metals alloys L1 MOLYBDENUM
DESC: SIMULATION ; EXPERIMENTAL
EFFT: NETURON
SUJO: 3-243-000
SYMJ: RADIATION EFFECTS, VOL. 5, NOS. 3 AND 4, OCTOBER 1970
TITL: ON STAGE V RECOVERY IN VIA B.C.C. METALS (U), 3 P., (U)

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19223-153

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copy: 1 id: 52006-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 19223-173
AUTH: LUNGU S. ; RYBKO L.
CLSS: U
CORP: INSTITUTE FOR ATOMIC PHYSICS (BUCHAREST, ROMANIA)
DATE: 7000
DESC: Nuclear Weapon Effects materials ceramics optical L1 UO2 SIO2
VITROCERAMIC
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL
EFFT: TREE

LA: ROMANIA
SUJO: 3-241-000
SYMJ: RADIATION EFFECTS, VOL. 5, NOS. 3 AND 4, OCTOBER 1970
TITL: DIMENSIONAL CHANGES IN UO2-SIO2 VITROCERAMICS DURING IRRADIATION
(U), 9 P., (U)

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19223-173

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copy: 1 id: 52007-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 19223-213
AUTH: WITT H. ; RHEUDE A. ; HEUSINGER H.
CLSS: U
DATE: 7000
DESC: Nuclear Weapon Effects materials plastics resins L1 POLYSTYRENE
FLUORESCENCE
DESC: SIMULATION (SR 90) ; EXPERIMENTAL
EFFT: BETA
SUJO: 3-244-000
SYMJ: RADIATION EFFECTS, VOL. 5, NOS. 3 AND 4, OCTOBER 1970
TITL: FLUORESCENCE SPECTRA OF POLYSTYRENE EXCITED BY BETA-RAYS AND
UV-LIGHT (U), 7 P., (U)

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19223-213

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copy: 1 id: 52008-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 19223-221
AUTH: REMY G. ; RALAROSY J. ; TRIPIER J. ; DEBEAUVAIS M. ; STEIN R.
CLSS: U
DATE: 7000
DESC: test instruments nuclear radiation neutron L1
DESC: EXPERIMENTAL
SUJO: 4-342-000
SYMJ: RADIATION EFFECTS, VOL. 5, NOS. 3 AND 4, OCTOBER 1970
TITL: DOSIMETRIC AND SPECTROMETRIC APPROACHES TO FISSION NEUTRONS AND
THERMAL NEUTRONS USING PLASTIC DETECTOR VISUALIZATION (U), 5 P., (U)
TREE: 652

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19223-221

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copy: 1 id: 52009-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 19223-239
AUTH: FISHER S.B.
CLSS: U
CORP: BERKELEY NUCLEAR LABS. (BERKELEY, CLOUCESTERSHIRE, ENGLAND)
DATE: 7000
DESC: SIMULATION (ELECTRON MICROSCOPE) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects materials carbon L1 GRAPHITE FOILS
DESC: Nuclear Weapon Effects materials metals alloys L1 CU AL FE + NI
FOILS
DESC: Nuclear Weapon Effects materials ceramics optical L1 UO2 FOIL
EFFT: BETA
SUJO: 3-241-000 ; 3-243-000 ; 3-248-000
SYMJ: RADIATION EFFECTS, VOL. 5, NOS. 3 AND 4, OCTOBER 1970
TITL: ON THE TEMPERATURE RISE IN ELECTRON IRRADIATED FOILS (U), 5 P., (U)

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copy: 1 id: 52010-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 19223-251
AUTH: ALECU I.D. ; COJOCARU L.N.
CLSS: U
CORP: INSTITUTE FOR ATOMIC PHYSICS (BUCHAREST, RUMANIA)
DATE: 7000
DESC: THEORY
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 NIO CR2 O3 UO2 -SI O2
EFFT: TREE
LA: ROMANIA
SUJO: 3-220-200
SYMJ: RADIATION EFFECTS, VOL. 5, NOS. 3 AND 4, OCTOBER 1970
TITL: DEFECTS RESPONSIBLE FOR ELECTRICAL PROPERTY CHANGES IN IRRADIATED
OXIDES (U), 4 P., (U)
TREE: 200

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19223-251

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copy: 1 id: 52011-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19223-255
AUTH: SCHROEDER K.
CLSS: U
CORP: UNIVERSITY OF ILLINOIS (URBANA-CHAMPAIGN, IL.)
DATE: 7000
DESC: THEORY
DESC: Nuclear Weapon Effects materials metals alloys L1 CU

EFFT: BETA
SUJO: 3-243-000
SYMJ: RADIATION EFFECTS, VOL. 5, NOS. 3 AND 4, OCTOBER 1970
TITL: INFLUENCE OF TRAPPING AT IMPURITY ATOMS ON DIFFUSION ANNEALING OF
METALS AFTER ELECTRON IRRADIATION (U), 9 P., (U)

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19223-255

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copy: 1 id: 52012-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 19223-273
AUTH: SPRUSIL B. ; HAAS H. ; WOLLENBERGER H.
CLSS: U
DATE: 7000
DESC: Nuclear Weapon Effects materials metals alloys L1 AU-AG ALLOY FOILS
DESC: SIMULATION ; EXPERIMENTAL
EFFT: BETA
SUJO: 3-243-000
SYMJ: RADIATION EFFECTS, VOL. 5, NOS. 3 AND 4, OCTOBER 1970
TITL: DAMAGE RATES AND RECOVERY IN ELECTRON-IRRADIATED AU-AG ALLOYS (U), 3
P., (U)

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19223-273

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copy: 1 id: 52013-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 19223-281
AUTH: BRAGER H.R. ; KISSINGER H.E. ; KULCINSKI G.L.
CLSS: U
CORP: BATTELLE MEMORIAL INSTITUTE, PACIFIC NORTHWEST LAB. (RICHLAND,
WASH.)
DATE: 7000
DESC: Nuclear Weapon Effects materials metals alloys L1 316 STAINLESS
STEEL
DESC: SIMULATION (NI PI IONS) ; EXPERIMENTAL
EFFT: NETURON
SUJO: 3-243-000
SYMJ: RADIATION EFFECTS, VOL. 5, NOS. 3 AND 4, OCTOBER 1970
TITL: SPECIMEN PREPARATION FOR TRANSMISSION ELECTRON MICROSCOPY OF
HEAVY-ION-BOMBARDED TYPE 316 STAINLESS STEEL (U), 3 P., (U)

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19223-281

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copy: 1 id: 52014-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 19233
AUTH: SHOOK G.B.
CLSS: U
CONN: N 00014 69 C 0207
CORP: LOCKHEED PALO ALTO RESEARCH LAB. (PALO ALTO, CA.)
DATE: 7004
DESC: radio microwave propagation abnormal conditions auroral disturbances
sudden ionospheric disturbances SID polar cap absorptions PCA solar
eclipse L5
DESC: SATELLITE OV1-18 OBSERVATIONS ; EXPERIMENTAL
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation L5
EFFT: EMP
REPN: LMSC N 6P 70 1
SUJO: 5-738-000 ; 5-800-000
TITL: COORDINATED EXPERIMENT ON RADAR CLUTTER AND AURORAL PARTICLE FLUXES;
FINAL REPORT (U), 12 P., (U)

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19233

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copy: 1 id: 52020-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 19349-P.07
AUTH: COX L.S. ; EISENBERG N.A.
CLSS: SRD
DATE: 7000
DESC: Nuclear Weapon Effects electrical mechanical fluidic devices L1
DESC: TABULAR
EFFT: X-RAY
SUJO: 3-234-000
SYMJ: PROCEEDINGS OF THE GOVERNMENT FLUIDICS COORDINATION GROUP SYMPOSIUM
TITL: RADIATION EFFECTS ON FLUERIC COMPONENTS (U), 12 P., (SRD)
TREE: 350

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19349-P.07

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copy: 1 id: 52110-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 19349-P.21
AUTH: GOTO J.M. ; COX L.S.
CLSS: SRD
DATE: 7000
DESC: Nuclear Weapon Effects electrical mechanical fluidic devices L1

DESC: EXPERIMENTAL
EFFT: X-RAY
SHOT: MILK SHAKE
TSHO: UG-CONTAINED
SUJO: 3-234-000
SYMJ: PROCEEDINGS OF THE GOVERNMENT FLUIDICS COORDINATION GROUP SYMPOSIUM
TITL: RADIATION EFFECTS ON FLUERIC CIRCUITS (U), 29 P., (SRD)
TREE: 350

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19349-P.21

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copy: 1 id: 52111-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19350
AUTH: BERG N.J.
CLSS: SRD
CORP: HARRY DIAMOND LABORATORIES (WASH., DC)
DATE: 7007
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: SIMULATION (E BEAM) ; THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1

EFFT: X-RAY

REPN: HDL TR 1506

SUJO: 3-221-000 ; 3-222-000

TEMP: A7067

TITL: TEMPERATURE EFFECTS ON SEMICONDUCTOR COMPONENTS IN A HIGH-ENERGY
RADIATION ENVIRONMENT (U), 76 P., (SRD)

TREE: 310 ; 320

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19350

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copy: 1 id: 52113-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19367-19
AUTH: WAGNER R.L.
CLSS: SRD CNWDI
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6900
DESC: TABULAR
DESC: Nuclear Weapon Effects ordnance bombs mines warheads nuclear L1
EFFT: X-RAY ; NEUTRON
SUJO: 3-161-100
SYMJ: SUMMARY OF BRIEFING ON SURE-KILL OF REENTRY VEHICLES
TITL: NEUTRON LETAHLITY (U), 11 P., (SRD CNWDI)

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19367-19

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copy: 1 id: 52132-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 19441

AUTH: WILLIAMSON R.E. ; FISHER H.N. ; LARSON A.R. ; MEIXNER B.D. ;
NACHAMKIN J. ; TAYLOR W.M.

CLSS: SRD CNWDI

CCDE: COAX (BURN) LASL ; ARBOC ; RUDI ; RAFI

CONN: W 7405 ENG 36

CORP: LOS ALAMOS SCIENTIFIC LABORATORY (LOS ALAMOS, NM.)

DATE: 6905

DESC: Radiation Transport x-ray L1

DESC: THEORY TABULAR

DESC: Nuclear weapon basic design L1

REPN: LA 4185

SUJO: 4-831-000 ; 9-640-000

TEMP: A7150

TITL: RADIATION TRANSPORT AND DIFFUSION PROBLEMS FOR JOWOG-18 (U), 14 P.,
(SRD CNWDI)

TREE: 980

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copy: 1 id: 52201-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 19511

AUTH: BUTKOVICH T.R.

CLSS: CFRD

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)

DATE: 6902

DESC: EXPERIMENTAL

DESC: nuclear test detection seismic detection L1 DECOUPLING

DESC: Environmental Conditions at Nuclear Weapon Test Site geology L1

DESC: Nuclear Weapon Environment Ground Shock seismic measurements L1

DESC: Nuclear Weapon Environment Ground Shock motion strain fracture
displacement particle velocity L1

DESC: Nuclear Weapon Environment Ground Shock velocity arrival time
spectrum duration L1 ARRIVAL TIME

REPN: UCRL 50588

SHOT: SCROLL

TSHO: UG-CONTAINED

SUJO: 2-620-300 ; 2-621-000 ; 2-622-000 ; 4-842-000 ; 4-910-100

TEMP: A7441

TITL: PROJECT SCROLL-FINAL REPORT (U), 40 P., (CFRD)

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copy: 1 id: 52270-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 19514
AUTH: PRESTON R.G. ; WHEELER V.E.
CLSS: CFRD
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 6908
DESC: Nuclear Weapon Environment Ground Shock velocity arrival time
spectrum duration L1 ARRIVAL TIME
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture
displacement particle velocity L1
DESC: EXPERIMENTAL
REPN: UCRL 50662
SHOT: HUPMOBILE
TSHO: UG-CONTAINED
SUJO: 2-621-000 ; 2-622-000
TEMP: A7445
TITL: RESPONSE OF THE LINE-OF-SIGHT PIPE TO GROUND SHOCK IN THE HUPMOBILE
NUCLEAR EFFECTS TEST (U), 95 P., (CFRD)

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19514
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copy: 1 id: 52273-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 19782
AUTH: CARPENTER J.W. ; MANLEY O.P.
CLSS: U
CORP: AMERICAN SCIENCE AND ENGINEERING INCORPORATED (CAMBRIDGE-MA)
DATE: 6901
DESC: SUMMARY
DESC: Nuclear Weapon Environment radiation decay gamma decay
SUJO: 2-223-420
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH, SPACE PHYSICS (U), VOLUME 74,
NUMBER 1 (U), JANUARY 1, 1969
TITL: CORRECTION TO LETTER BY J.W. CARPENTER AND O.P. MANLEY, HIGH-ENERGY
BETAS AND GAMMAS FROM LONG HALF-LIFE FISSION DEBRIS PRODUCTS (U), 1
P (U)

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19782
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copy: 1 id: 52565-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19789
AUTH: FARLEY T.A.
CLSS: U
CORP: DEPARTMENT OF PLANETARY AND SPACE SCIENCE INSTITUTE OF GEOPHYSICS
AND PLANETARY PHYSICS UCLA (LOS ANGELES-CA)
DATE: 6903
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation
SHOT: STARFISH
TSHO: HI-ALT
SUJO: 2-217-000 ; 5-800-000
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH (U), VOLUME 74, NUMBER 14 (U), JULY
1 1969, 3591
TITL: RADIAL DIFFUSION OF STARFISH ELECTRONS (U),9 P (U)

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19789

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copy: 1 id: 52572-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19794
AUTH: SISEMORE C.J. ; ROGERS L.A. ; PERRET W.R.
CCDE: SOC
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA) , EL PASO NATURAL GAS
COMPANY (ELPASO-TX) , SANDIA CORPORATION (ALBUQUERQUE-NM)
DATE: 6912
DESC: Nuclear Weapon Environment Ground Shock impact pressure stress L1
DESC: nuclear test detection seismic detection L5
DESC: Nuclear Weapon Environment Ground Shock velocity arrival time
spectrum duration L1
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture
displacement particle velocity L1
SHOT: STERLING
TSHO: UG-CONTAINED
SUJO: 2-621-000 ; 2-622-000 ; 2-623-000 ; 4-910-100
SYMJ: CONTAINED IN THE JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 74, NO. 27,
PP 6623-6637, (U)
TITL: PROJECT STERLING: SUBSURFACE PHENOMENOLOGY MEASUREMENTS NEAR A
DECOUPLED NUCLEAR EVENT (U), 15 P, (U)

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19794

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copy: 1 id: 52577-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19802
AUTH: BOSTROM C.O. ; BEALL D.S. ; ARMSTRONG J.C.
CLSS: U
CORP: APPLIED PHYSICS LABORATORY (SILVER SPRING-MD)
DATE: 6911
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping L1
TRAPPED RADIATION
SHOT: STARFISH
TSHO: HI-ALT
SUJO: 2-217-000
SYMJ: JOURNAL OF GEOPHYSICAL RESEARCH, SPACE SYSTEMS, VOL 75, NO 7, MARCH
1970
TITL: TIME HISTORY OF THE INNER RADIATION ZONE, OCTOBER 1963 TO DECEMBER
1969 (U), 12 P, (U)

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19802

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copy: 1 id: 52585-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19818-087
AUTH: MAIMONI A.
CLSS: SRD CNWDI
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7006
DESC: Nuclear Weapon Effects reentry systems RV materials shielding L1
DESC: EXPERIMENTAL TABULAR
EFFT: X-RAY
SHOT: MIDI MIST
TSHO: UG-CONTAINED
SUJO: 3-113-230
SYMJ: PROCEEDINGS OF THE UNITED STATES-UNITED KINGDOM MUTUAL DEFENSE
AGREEMENT MATERIALS CONFERENCE (JOWOG 28) VOL. 2
TITL: "TROUT," OR SPHERICAL RADIATION ABSORBERS (SRA'S) (U), 7 P., (SRD
CNWDI)

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19818-087

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copy: 1 id: 52607-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 19818-103
AUTH: STUDDT P.L.
CLSS: SRD CNWDI
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7006
DESC: Nuclear Weapon Effects reentry systems RV materials shielding L1

DESC: EXPERIMENTAL
EFFT: X-RAY
SHOT: PACKARD
TSHO: UG-CONTAINED
SUJO: 3-113-230
SYMJ: PROCEEDINGS OF THE UNITED STATES-UNITED KINGDOM MUTUAL DEFENSE
AGREEMENT MATERIALS CONFERENCE (JOWOG 28) VOL. 2
TITL: TROUT, SRA'S (U), 9 P., (SRD CNWDI)

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19818-103

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copy: 1 id: 52609-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 20064
AUTH: KELLS K.E.
CLSS: U
CONN: AF 04 (694) 676 0049
CORP: BOEING CO. (SEATTLE, WASH.)
DATE: 6912
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DROPPER CIRCUITS
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS DIODES DIODE PAIRS
ZENER DIODES
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
OPERATIONAL AMPLIFIER
EFFT: TREE
REPN: D2 90607 5
SUJO: 3-213-000 ; 3-221-000 ; 3-222-000
TITL: SABRE RADIATION EFFECTS DATA BOOK; VOL. 5, (U), 313 P., (U)
TREE: 310 ; 320 ; 369

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20064

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copy: 1 id: 53105-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 20065
ADNO: 871661
AUTH: NIEHAUS D.J. ; STOLL E.D.
CLSS: U
CONN: F 04701 69 C 0170
CORP: BENDIX CORP. (TETERBORO, N.J.)
DATE: 7005
DESC: SIMULATION (REACTOR PULSERAD) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L1 POWER TRANSISTORS DIODES

EFFT: TREE
SUJO: 3-221-000
TITL: NUCLEAR RADIATION HARDNESS ASSURANCE FOR ELECTRONICS (U), CA. 500
P., (U)

TREE: 310 ; 610

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20065
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copy: 1 id: 53106-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 20182
AUTH: HARRISON F.L.
CLSS: U
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6902
DESC: Nuclear Weapon Environment Fallout Particles chemical composition

solubility L5

DESC: THEORY
DESC: Nuclear Weapon Environment Fallout isotope concentrations L5
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1

REPN: UCRL 50596
TSHO: UG-VENTED
SUJO: 2-222-100 ; 2-223-100 ; 3-312-220
TITL: RADIOACTIVE DEBRIS FROM UNDERGROUND NUCLEAR EXPLOSIONS--1. PHYSICAL
AND CHEMICAL CHARACTERISTICS, 2. BIOLOGICAL AVAILABILITY OF THE
RADIONUCLIDES TO AQUATIC ANIMALS (U), 26 P., (U)

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20182
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copy: 1 id: 53212-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 20197
AUTH: DE LALLA O.F.
CLSS: U
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6908
DESC: Nuclear Weapon Environment fallout from venting L1
DESC: Nuclear Weapon Environment fallout down fraction L1
DESC: Nuclear Weapon Environment Fallout Particles L1
DESC: PLOWSHARE ; EXPERIMENTAL
REPN: UCRL 50631
SHOT: PALANQUIN
TSHO: UG-VENTED
SUJO: 2-222-000 ; 2-224-400 ; 2-225-200

TITL: PALANQUIN EVENT--QUANTITATIVE POSTSHOT DISTRIBUTION OF CLOSE-IN
FALLOUT, THROWOUT, AND BASE SURGE (U), 21 P., (U)

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copy: 1 id: 53220-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 20198

AUTH: CHERTOK R.J. ; LAKE S.

CLSS: U

CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)

DATE: 6911

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1

DESC: PLOWSHARE

REPN: UCRL 50703

TSHO: UG-VENTED

SUJO: 3-312-220

TITL: BIOLOGICAL AVAILABILITY IN THE DOG OF SOME RADIONUCLIDES PRODUCED BY
A NUCLEAR EVENT (U), 6 P., (U)

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20198

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copy: 1 id: 53221-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 20199

AUTH: PRATT M.W.

CLSS: U

CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)

DATE: 7011

DESC: THEORY

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1

REPN: UCRL 50163 PT. 7

SUJO: 3-312-220

TITL: PREDICTION OF THE DOSAGE TO MAN FROM THE FALLOUT OF NUCLEAR DEVICES;
VII, ESTIMATION OF THE MAXIMUM DOSE RATE FROM THE CONTINUOUS RELEASE
OF RADIONUCLIDES TO THE BIOSPHERE (U), 77 P., (U)

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copy: 1 id: 53222-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 20215
AUTH: SNOW E.H. ; HURLSTON R.E. ; ALBUS H.P. ; TREMERE D.A. ; YU A.Y.C.
CLSS: U
CONN: F 19628 69 C 0118
CORP: FAIRCHILD CAMERA AND INSTRUMENT CORP. (PALO ALTO, CA.)
DATE: 7008
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: SIMULATION (TRIGA) ; THEORY EXPERIMENTAL
EFFT: TREE
REPN: AFCRL 70 0568
SUJO: 3-221-000
TITL: STUDY OF RADIATION EFFECTS ON NOVEL SEMICONDUCTOR DEVICES (U), 110
P., (U)
TREE: 310

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20215

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copy: 1 id: 53233-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 20269
ADNO: 857542
AUTH: WAILLY L.F.
CLSS: U
CONN: F 29601 67 C 0019
CORP: COLORADO STATE UNIVERSITY (FT. COLLINS, CO.)
DATE: 6907
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: EXPERIMENTAL
REPN: AFWL TR 69 43
SUJO: 3-312-100
TITL: CELL PROLIFERATION AFTER IRRADIATION (U), 192 P., (U)

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20269

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copy: 1 id: 53268-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 20280
AUTH: MULLEN O.W.
CLSS: U
CONN: AT (26 1) 410
CORP: REYNOLDS ELECTRICAL AND ENGINEERING CO., INC. (LAS VEGAS, NV.)
DATE: 6907
DESC: PLOWSHARE ; EXPERIMENTAL
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1

DESC: Nuclear Weapon Environment Ground Shock craters excavations L9
DIMENSIONS P. 1
REPN: NVO 410 18
SHOT: SCHOONER
TSHO: UG-VENTED
SUJO: 2-223-200 ; 2-225-100 ; 2-625-000
TITL: SCHOONER EVENT ON SITE RADIOLOGICAL SAFETY REPORT (U), 50 P., (U)

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20280
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copy: 1 id: 53278-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 20284
AUTH: BROWN W.K. ; SEEGER P.A. ; SILBERT M.G.
CLSS: U
CORP: LOS ALAMOS SCIENTIFIC LAB. (LOS ALAMOS, N.M.)
DATE: 6905
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1
DESC: Nuclear Weapon Environment Prompt Neutron time of flight L5
DESC: EXPERIMENTAL SUMMARY
DESC: test instruments nuclear radiation neutron L1
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L5
REPN: LA 4095
SHOT: PETREL ; POMMARD ; PERSIMMON ; PARROT
TSHO: UG-CONTAINED
SUJO: 1-120-000 ; 1-150-000 ; 4-140-000 ; 4-342-000
TITL: NEUTRON FLUX DETERMINATION IN TIME-OF-FLIGHT CROSS-SECTION
MEASUREMENTS USING UNDERGROUND NUCLEAR EXPLOSIONS (U), 17 P., (U)

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20284
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copy: 1 id: 53282-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 20328
AUTH: MAHAFFEY M.K.
CLSS: U
CORP: BATTELLE MEMORIAL INSTITUTE, PACIFIC NORTHWEST LABS. (RICHLAND, WA.)
DATE: 6910
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources L1
DESC: SUMMARY
REPN: BNWL 1215
SUJO: 4-241-000
TITL: SURVEY OF TRANSPORT METHODS FOR SHORT TERM IRRADIATION FACILITIES
(U), 33 P., (U)

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.endblock

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copy: 1 id: 53317-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 20329
AUTH: ROBISON W.L. ; ANSPAUGH L.R.
CLSS: U
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6912
DESC: PLOWSHARE ; SUMMARY
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1
TRITIUM
DESC: Environmental Impact Assessments EIS Supporting Data L1 GIVES METHOD
FOR RISK EVALUATION FOR WHOLE BODY RADIATION
SHOT: RULISON
TSHO: UG-CONTAINED
SUJO: 3-312-200 ; 4-870-200
TITL: ASSESSMENT OF POTENTIAL BIOLOGICAL HAZARDS FROM PROJECT RULISON (U),
35 P., (U)

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20329
.endblock

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copy: 1 id: 53318-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 20340
AUTH: ROBERTS J.E.
CLSS: U
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6911
DESC: Nuclear Weapon Environment Ground Shock seismic measurements L1
DESC: ALSO IN MICROFICHE ; SUMMARY
REPN: UCRL 50763
SUJO: 2-620-300
TITL: SPECTRAL COMPOSITION OF SEISMIC SOURCE FUNCTIONS ASSOCIATED WITH
SOME REPRESENTATIVE NUCLEAR DETONATIONS (U), 186 P., (U)

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20340
.endblock

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copy: 1 id: 53329-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 20377

AUTH: MOBLEY T.S. ; STILL E.T. ; RUSH W. ; TAYLOR J.F. ; PERSING R.L. ;
DEFEO T.C.
CLSS: U
CORP: AIR FORCE WEAPONS LAB. (KIRTLAND AFB, N.M.)
DATE: 6910
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
REPN: AFWL TR 69 48
SUJO: 3-312-100
TITL: INTERLABORATORY COMPARISON OF MORTALITY IN SHEEP EXPOSED TO 60 CO
GAMMA RADIATION (U), 42 P., (U)

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copy: 1 id: 53362-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 20383
AUTH: STURMAN I.
CLSS: U
CONN: AF 29 (601) 5995
CORP: TRACERLAB/WEST (RICHMOND, CA.)
DATE: 6903
DESC: EXPERIMENTAL
DESC: test instruments nuclear radiation gamma L1
REPN: AFWL TR 68 97
SUJO: 4-341-000
TITL: GAMMA DETECTING-INDICATING SYSTEM AN/GKQ-4 (U), 66 P., (U)
TREE: 651

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copy: 1 id: 53366-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 20388
AUTH: TURBYFILL C.L.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 6912
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: NETURON ; GAMMA
REPN: AFRRRI SR 69 23
SUJO: 3-312-100
TITL: PLASMA CHEMISTRY VALUES FOR THE MONKEY (MACACA MULATTA) AFTER A
SUPRALETHAL DOSE OF PULSED MIXED GAMMA-NEUTRON RADIATIONS (U), 16
P., (U)

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20388
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copy: 1 id: 53369-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 20389
AUTH: CHAPUT R.L. ; KOVACIC R.T.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 6912
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: EXPERIMENTAL
EFFT: NEUTRON ; GAMMA
REPN: AFRRI SR 69 22
SUJO: 3-312-100
TITL: MINIATURE PIG PERFORMANCE AFTER FRACTIONATED DOSES OF IONIZING
RADIATION (U), 20 P., (U)

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20389
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copy: 1 id: 53370-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 20390
AUTH: THORP J.W. ; CHAPUT R.L. ; KOVACIC R.T.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 6912
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: EXPERIMENTAL
EFFT: NEUTRON ; GAMMA
REPN: AFRRI SR 69 20
SUJO: 3-312-100
TITL: PERFORMANCE OF MINIATURE PIGS AFTER PARTIAL BODY IRRADIATION (U), 19
P., (U)

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copy: 1 id: 53371-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 20391
AUTH: STRIKE T.A.
CLSS: U

CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 6912
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: NEUTRON
REPN: AFRRI SR 69 19
SUJO: 3-312-100
TITL: ACUTE MORTALITY OF MICE AND RATS EXPOSED TO 14 MEV NEUTRONS (U), 23
P., (U)

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copy: 1 id: 53372-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 20392
AUTH: THORP J.W. ; GERMAS J.E.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 6911
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: NEUTRON ; GAMMA
REPN: AFRRI SR 69 18
SUJO: 3-312-100
TITL: PERFORMANCE OF MONKEYS AFTER PARTIAL BODY IRRADIATION (U), 17 P.,
(U)

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copy: 1 id: 53373-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 20393
AUTH: BOWSER R.T. ; SPENCE D.B. ; EXUM E.D.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 6910
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: X-RAY
REPN: AFRRI SR 69 17
SUJO: 3-312-100
TITL: EFFECT OF X IRRADIATION ON DELAYED HYPERSENSITIVITY AND CIRCULATING
ANTIBODY (U), 18 P., (U)

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20393

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copy: 1 id: 53374-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 20394
AUTH: KIVY-ROSENBERG E.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 6910
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: NEUTRON ; GAMMA
REPN: AFRRI SR 69 16
SUJO: 3-312-100
TITL: RESPONSE OF RAT GASTROINTESTINAL TRACT DEHYDROGENASE SYSTEMS TO
WHOLE-BODY IONIZING IRRADIATION (U), 19 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 20395
AUTH: MILETICH D.J. ; STRIKE T.A.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 7001
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: EXPERIMENTAL
EFFT: NETURON ; GAMMA
REPN: AFRRI SR 70 1
SUJO: 3-312-100
TITL: ALTERATION OF POSTIRRADIATION HYPOTENSION AND INCAPACITATION IN THE
MONKEY BY ADMINISTRATION OF VASOPRESSOR DRUGS (U), 16 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 20415
AUTH: BAUM S.J. ; WYANT D.E.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 7002
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1

DESC: EXPERIMENTAL
EFFT: NEUTRON ; GAMMA
REPN: AFRRI SR 70 2
SUJO: 3-312-100
TITL: HEMATOPOIETIC RECOVERY IN IRRADIATED DOGS (U), 31 P., (U)

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20415

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 20416
AUTH: TURBYFILL C.L. ; THORP J.W. ; WISE D.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 7005
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: EXPERIMENTAL
EFFT: NETURON ; GAMMA
REPN: AFRRI SR 70 4
SUJO: 3-312-100
TITL: CARDIOVASCULAR RESPONSE OF BEAGLES TO A SUPRALETHAL DOSE OF MIXED
GAMMA-NEUTRON RADIATION (U), 16 P., (U)

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copy: 1 id: 53397-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 20417
AUTH: CHAPUT R.L. ; KOVACIC R.T.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 7006
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: NETURON ; GAMMA
REPN: AFRRI SR 70 5
SUJO: 3-312-100
TITL: MINIATURE PIG PERFORMANCE AFTER FRACTIONATED DOSES OF
RADIATION--TIME-DOSE RELATIONSHIPS (U), 23 P., (U)

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20417

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copy: 1 id: 53398-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 20418
AUTH: YOUNG R.W. ; MCFARLAND W.L.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 7006
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: NEUTRON ; GAMMA
REPN: AFRRI SR 70 7
SUJO: 3-312-100
TITL: EFFECTS OF 15,000 RADS PULSED GAMMA-NEUTRON RADIATION ON THE
BEHAVIORAL PERFORMANCE ON MONKEYS (MACACA MULATTA) (U), 11 P., (U)

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20418

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copy: 1 id: 53399-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 20420
AUTH: WISE D. ; TURBYFILL C.L.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 6907
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: EXPERIMENTAL
EFFT: NETURON ; GAMMA
REPN: AFRRI SR 69 10
SUJO: 3-312-100
TITL: ACUTE MORTALITY RESPONSE OF THE MINIATURE PIG TO PULSED MIXED
GAMMA-NETURON RADIATIONS (U), 20 P., (U)

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20420

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copy: 1 id: 53401-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 20421
AUTH: RODERICK U.R. ; STRIKE T.A.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 6909
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: NEUTRON ; GAMMA
REPN: AFRRI SR 69 11
SUJO: 3-312-100

TITL: EFFECT OF MIXED GAMMA-NEUTRON RADIATIONS ON PLASMA AND URINE AMINO
ACID LEVELS IN THE RAT (U), 23 P., (U)

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20421

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copy: 1 id: 53402-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 20422

AUTH: CHAPUT R.L. ; WISE D.

CLSS: U

CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)

DATE: 6909

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1

DESC: EXPERIMENTAL

EFFT: NEUTRON ; GAMMA

REPN: AFRRI SR 69 12

SUJO: 3-312-100

TITL: MINIATURE PIG INCAPACITATION AND PERFORMANCE DECREMENT AFTER MIXED
GAMMA-NEUTRON IRRADIATION (U), 23 P., (U)

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20422

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copy: 1 id: 53403-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 20423

AUTH: RAFF R.A.

CLSS: U

CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)

DATE: 6909

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1

EFFT: X-RAY

REPN: AFRRI SR 69 13

SUJO: 3-312-100

TITL: INDUCTION OF FATTY ACID SYNTHESIS IN CULTURED MAMMALIAN
CELLS--EFFECTS OF CYCLOHEXIMIDE AND X-RAYS (U), 29 P., (U)

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20423

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copy: 1 id: 53404-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 20424

AUTH: YOUNG R.W. ; KESSLER D.A.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 6909
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: NEUTRON ; GAMMA
REPN: AFRRI SR 69 14
SUJO: 3-312-100
TITL: PERFORMANCE OF SEQUENTIAL TASKS BY UNRESTRAINED MONKEYS FOLLOWING A
4200-RAD PULSE OF MIXED GAMMA-NEUTRON RADIATION (U), 20 P., (U)

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copy: 1 id: 53405-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 20425
AUTH: KAGNOFF M.F. ; HARVEY S.A.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 6910
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: X-RAY
REPN: AFRRI SR 69 15
SUJO: 3-312-100
TITL: IN VITRO MOTOR ACTIVITY OF RAT SMALL INTESTINE FOLLOWING WHOLE-BODY
X IRRADIATION (U), 22 P., (U)

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copy: 1 id: 53406-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 20428
AUTH: GERMAS J.E. ; KAPLAN S.J. ; DEHAAN H.J.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 6901
DESC: ALSO IN MICROFICHE
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: NEUTRON ; GAMMA
REPN: AFRRI SR 69 2
SUJO: 3-312-100
TITL: VISUAL DISCRIMINATION PERFORMANCE IN THE MONKEY FOLLOWING A 10,
000-RAD PULSE OF MIXED GAMMA-NEUTRON RADIATION (U), 17 P., (U)

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20428

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copy: 1 id: 53409-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 20429

AUTH: BAUM S.J. ; VARON M.I. ; WYANT D.E.

CLSS: U

CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)

DATE: 6902

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1

EFFT: NEUTRON ; GAMMA

REPN: AFRRI SR 69 3

SUJO: 3-312-100

TITL: EFFECT OF EXOGENOUS ERYTHROPOIETIN UPON ERYTHROPIESIS IN
RADIATION-INDUCED ANEMIC RATS (U), 20 P., (U)

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20429

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copy: 1 id: 53410-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 20430

AUTH: LEVICH C. ; SEIGNEUR L.J. ; STRIKE T.A. ; HANSEN C.L.JR. ; SCHLAACK
J.R.

CLSS: U

CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)

DATE: 6902

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1

DESC: EXPERIMENTAL

EFFT: NEUTRON ; GAMMA

REPN: AFRRI SR 69 4

SUJO: 3-312-100

TITL: COMPARISON OF SURVIVAL TIMES OF MONKEYS AND RATS EXPOSED TO PULSED
AND STEADY-STATE REACTOR RADIATIONS (U), 22 P., (U)

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20430

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 20431

AUTH: CATRAVAS G.N.

CLSS: U

CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 6904
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: GAMMA
REPN: AFRI SR 69 7
SUJO: 3-312-100
TITL: EFFECT OF X RAYS AND 60 CO GAMMA RAYS ON THE LIVER ENZYME SYSTEM
RESPONSIBLE FOR FATTY ACID SYNTHESIS (U), 21 P., (U)

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20431

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copy: 1 id: 53412-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 20432
AUTH: GERMAS J.E. ; FINEBERG M.L. ; DEHAAN H.J.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 6904
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: NEUTRON ; GAMMA
REPN: AFRI SR 69 8
SUJO: 3-312-100
TITL: VISUAL DISCRIMINATION PERFORMANCE IN THE MONKEY FOLLOWING A 2500-RAD
PULSE OF MIXED GAMMA-NEUTRON RADIATION (U), 17 P., (U)

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20432

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copy: 1 id: 53413-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 20477
AUTH: MILETICH D.J. ; BRADLEY S.L. ; STRIKE T.A.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 6912
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: X-RAY
REPN: AFRI SR 69 27
SUJO: 3-312-100
TITL: EFFECT OF SYMPATHOMIMETIC AMINES ON RADIATION-INDUCED TOLERANCE TO
PENTOBARBITAL IN THE RAT (U), 15 P., (U)

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20477

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copy: 1 id: 53454-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 20605
AUTH: MAMURO T. ; MATSUNAMI T. ; FUJITA A. ; YOSHIKAWA K.
CLSS: U
CORP: RADIATION CENTER OF OSAKA PREFECTURE (SAKAI-SHI, JAPAN)
DATE: 6903
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Environment fallout fractionation L1
LA: JAPAN
SHOT: cpr(66-12-28)
TSHO: SURFACE
SUJO: 2-223-500
TITL: RADIONUCLIDE FRACTIONATION IN FALLOUT PARTICLES FROM A LAND SURFACE
BURST (U), 14 P., (U)

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20605

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 20664
ADNO: 865313
AUTH: MOBLEY T.S. ; DEBOER J. ; PERSING R.L.
CLSS: U
CORP: AIR FORCE WEAPONS LAB. (KIRTLAND AFB, N.M.)
DATE: 7001
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1 SHEEP
DESC: EXPERIMENTAL
EFFT: GAMMA
REPN: AFWL TR 69 145
SUJO: 3-312-100
TITL: RESPONSE OF WETHERS TO MEDIAN LETHAL DOSE LEVELS OF 60 CO GAMMA
RADIATION (U), 34 P., (U)

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20664

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copy: 1 id: 53629-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 20668
ADNO: 874999
AUTH: ALTER W.A. ; PERSING R.L. ; GOLDHAHN R.T.JR.
CLSS: U

CORP: AIR FORCE WEAPONS LAB. (KIRTLAND AFB, N.M.)
DATE: 7008
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: EXPERIMENTAL
EFFT: GAMMA
REPN: AFWL TR 70 93
SUJO: 3-312-100
TITL: COMPARISON OF SHEEP PHYSIOLOGICAL RESPONSES TO PULSED FISSION
SPECTRUM OF 60 COBALT GAMMA RADIATIONS (U), 36 P., (U)

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20668

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 20670
ADNO: 875071
AUTH: SCHNEIDER M.F. ; AINSWORTH G.C. ; WALTER R.E.
CLSS: U
CORP: AIR FORCE WEAPONS LAB. (KIRTLAND AFB, N.M.)
DATE: 7008
DESC: test instruments biomedical L1
DESC: test instruments nuclear radiation L1
DESC: THEORY EXPERIMENTAL
REPN: AFWL TR 70 29
SUJO: 4-340-000 ; 4-351-000
TITL: ACTIVE DOSIMETER SYSTEM TO MEASURE ENERGY DEPOSITION AND CHARGED
PARTICLE SPECTRA OF HIGH ENERGY INNER VAN ALLEN BELT, SOLAR FLARE,
AND GALACTIC COSMIC PROTONS ON MANNED SPACECRAFT (U), 100 P., (U)

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copy: 1 id: 53635-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 20735
AUTH: EVANS A.S.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 6912
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: NEUTRON ; GAMMA
REPN: AFRRI SR 69 24
SUJO: 3-312-100
TITL: EFFECT OF IONIZING RADIATIONS ON DISTRIBUTION OF PLASMA
PROTEIN-BOUND NEUTRAL HEXOSES IN MICE AND DOGS (U), 20 P., (U)

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20735
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copy: 1 id: 53685-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 20736
AUTH: RENE A.A. ; EVANS A.S.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 6912
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: EXPERIMENTAL
EFFT: NEUTRON ; GAMMA
REPN: AFRRI SR 69 25
SUJO: 3-312-100
TITL: CORRELATION OF RADIATION-INDUCED ULTRASTRUCTURAL CHANGES IN MOUSE
HEPATOCYTES WITH ALTERATIONS IN PLASMA CONCENTRATION OF
PROTEIN-BOUND NEUTRAL HEXOSES (U), 19 P., (U)

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20736
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copy: 1 id: 53686-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 20737
AUTH: RENE A.A. ; PARKER J.L. ; DARDEN J.H.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 6912
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: EXPERIMENTAL
EFFT: X-RAY
REPN: AFRRI SR 69 26 PT. 1
SUJO: 3-312-100
TITL: RADIATION-INDUCED ULTRASTRUCTURAL CHANGES IN LYSOSOMES; I,
CYTOCHEMICAL ANALYSIS (U), 25 P., (U)

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copy: 1 id: 53687-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 20797
ADNO: 882244L
AUTH: MEASON J.L. ; WRIGHT H.L.

CLSS: U
CCDE: EFFWED ; EFFECTIVE CROSS SECTION
CORP: ARMY MISSILE TEST AND EVALUATION (WHITE SANDS MISSILE RANGE, N.M.)
DATE: 7007
DESC: test instruments nuclear radiation neutron L1
DESC: Cross Sections neutron L1
DESC: EXPERIMENTAL
SUJO: 4-342-000 ; 9-820-000
TITL: METHODOLOGY INVESTIGATION OF RADIATION ENVIRONMENT MEASURING
TECHNIQUES (U), 101 P., (U)
TREE: 652

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copy: 1 id: 53742-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 20890
AUTH: WONG K.M. ; NOSHKIN V.E. ; SURPRENANT L. ; BOWEN V.T.
CLSS: U
CORP: WOODS HOLE OCEANOGRAPHIC INSTITUTION (WOODS HOLE, MA.)
DATE: 7005
DESC: Environmental Impact Assessments EIS Supporting Data L1
DESC: Nuclear Weapon Effects ecological L1 CONCENTRATION FACTORS
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
DESC: EXPERIMENTAL
REPN: NYO 2174 115
SUJO: 3-312-220 ; 3-341-000 ; 4-870-200
TITL: PLUTONIUM 239 IN SOME MARINE ORGANISMS AND SEDIMENTS (U), 7 P., (U)

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20890
.endblock

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copy: 1 id: 53812-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 21094
ABS: As a part of operation Roller Coaster, four field trials were performed to investigate the dispersal of nuclides from accidents involving nuclear weapons. Measurements were made of the time-integrated concentration of the aerosol on arcs as far as 15 km from a simulated accident. This report contains a general description of the Roller Coaster experiments and details of the air sampling experiments and the instruments used. Results of the measurements are presented in tables, cross-arc plots, peak exposure versus distance curves, isopleth maps, and areas within isopleth curves for the respirable fraction and the total aerosol airborne from each of the four experiments. General features of the air

sampling results are discussed as they relate to sampler error,
orographic effects, turbulence scale, wind shear, and areas affected
by a weapon accident.

AUTH: CHURCH H.W. ; LUNA R.E. ; MILLY S.M.
CLSS: U
CORP: SANDIA LABS. (ALBUQUERQUE, N.M.)
DATE: 7002
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1 PU
DESC: EXPERIMENTAL TABULAR
DESC: Nuclear weapon safety radiological L1 PU
REPN: SC RR 69 788
SHOT: ROLLER COASTER ; CLEAN SLATE ; DOUBLE TRACKS
TSHO: SURFACE
SUJO: 2-225-100 ; 4-838-100
TITL: OPERATION ROLLER COASTER; NEAR GROUND-LEVEL AIR SAMPLER MEASUREMENTS
(U), 182 P., (U)
TNFF: 8859

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21094

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copy: 1 id: 53928-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 21174
AUTH: HARDY E.P. JR. ; RIVERA J.
CLSS: U
CORP: ATOMIC ENERGY COMMISSION, HEALTH AND SAFETY LAB. (NEW YORK, N.Y.)
DATE: 7001
DESC: SUMMARY
DESC: Nuclear Weapon Environment radiation decay isotopic half lives L1
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1 SR PU
REPN: HASL 217
SUJO: 2-223-410 ; 3-312-220
TITL: FALLOUT PROGRAM QUARTERLY SUMMARY REPORT (SEPTEMBER 1, 1969 THROUGH
DECEMBER 1, 1969) (U), CA. 400 P., (U)

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21174

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copy: 1 id: 53985-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 21211
ADNO: 694434
AUTH: FRENCH R.L. ; MOONEY L.G.
CLSS: U
CONN: DA 20 113 AMC 06121(T)
CORP: RADIATION RESEARCH ASSOCIATES, INC. (FT. WORTH, TX.)

DATE: 6907
DESC: SIMULATION (ACCELERATOR) ; EXPERIMENTAL
DESC: Radiation Transport neutron L1
DESC: Nuclear Test Simulation Field Programs experiment design neutron
experiments L1
EFFT: NEUTRON
REPN: RRA T95 ; ATACOM TR 10590
SUJO: 4-820-300 ; 9-650-000
TITL: DIFFERENTIAL MEASUREMENTS OF FAST-NEUTRON AIR-GROUND INTERFACE
EFFECTS; PROJECT 9.2, OPERATION HENRE (U), 28 P., (U)
TREE: 970

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21211
.endblock

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copy: 1 id: 54019-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 21238
AUTH: PETERSON K.R. ; CRAWFORD T.V.
CLSS: U
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7007
DESC: SUMMARY
DESC: Nuclear Weapon Environment fallout transfer L1 WASHOUT
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
DESC: Nuclear Weapon Environment fallout transport L1
REPN: UCRL 72603 ; CONF 700601 1
TSHO: UG-VENTED
SUJO: 2-224-200 ; 2-224-300 ; 3-312-220
TITL: PRECIPITATION SCAVENGING IN A LARGE-CLOUD DIFFUSION CODE (U), 15 P.,
(U)

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21238
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copy: 1 id: 54041-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 21375
AUTH: RIZER G.C.
CLSS: U
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7010
DESC: INCLUDES METHOD FOR ESTIMATING NUMBER OF STRUCTURES FROM POPULATION
AND DAMAGE CLAIMS FROM PSEUDO-ACCELERATION
DESC: Nuclear Weapon Test safety L5
DESC: Nuclear Weapon Effects structures aboveground buildings L1
DESC: Environmental Impact Assessments EIS Supporting Data L5

REPN: UCRL 50959
SUJO: 3-251-000 ; 4-856-000 ; 4-870-200
TITL: METHOD OF PREDICTING SEISMIC DAMAGE TO RESIDENTIAL-TYPE STRUCTURES
FROM UNDERGROUND NUCLEAR EXPLOSIONS (U), 14 P., (U)

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21375
.endblock
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copy: 1 id: 54154-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 21583
ADNO: 500832
AUTH: HOYT R.C.
CLSS: SRD
CCDE: MAGIC -SAM C
CORP: ARMY MATERIEL SYSTEMS ANALYSIS AGENCY (ABERDEEN PROVING GROUND, MD)
DATE: 6902
DESC: THEORY
DESC: Nuclear Weapon Effects land transport armored vehicles L1
TRANSMISSION FACTORS PROTECTION FACTORS
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1
EFFT: NEUTRON ; GAMMA
REPN: AMSAA TR 15
SUJO: 3-151-000 ; 4-140-000
TEMP: A9246
TITL: COMPARISON OF PROMPT RADIATION PROTECTION OF THE M60A1 AND THE
MBT-70 (U), 77 P., (SRD)

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21583
.endblock
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copy: 1 id: 54316-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 21775
AUTH: KING C.Y.
CLSS: U
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 6910
DESC: Soil Rock Properties Equation of State Conductivity L5 ACOUSTIC
VELOCITY 10 COMMON MEDIA
DESC: Environmental Impact Assessments EIS Supporting Data L5
DESC: NUCLEAR AND HE ; SUMMARY
DESC: Nuclear Weapon Effects structures aboveground components L1
DESC: Nuclear Weapon Environment Ground Shock seismic measurements L5
REPN: UCID 15531
TSHO: UG-CONTAINED
SUJO: 2-620-300 ; 3-251-100 ; 4-870-200 ; 6-300-000

TITL: STRUCTURAL RESPONSES AND DAMAGE THRESHOLDS DUE TO GROUND EXCITATION
(U), 70 P., (U)

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21775

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copy: 1 id: 54463-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 21940

ADNO: 699420

AUTH: MILLER C.F.

CLSS: U

CONN: DAHC 20 69 C 0142

CORP: URS RESEARCH CO. (BURLINGAME, CA.)

DATE: 6908

DESC: Nuclear Weapon Environment radiation decay L1

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1

DESC: Nuclear Weapon Environment fallout fractionation L1

DESC: EXPERIMENTAL

REPN: URS 757 3

SHOT: DIABLO ; SHASTA

TSHO: LOW-ALT

SUJO: 2-223-200 ; 2-223-400 ; 2-223-500

TITL: SOME PROPERTIES OF RADIOACTIVE FALLOUT; TOWER DETONATIONS DIABLO AND
SHASTA (U), 79 P., (U)

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21940

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copy: 1 id: 54587-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 21941

AUTH: CRAWFORD T.V.

CLSS: U

CCDE: 2BPUFF (LLL ; LARGE CLOUD DIFFUSION)

CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA.)

DATE: 7000

DESC: Nuclear Weapon Environment fallout transport L1

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1

DESC: Nuclear Weapon Environment Fallout isotope concentrations L1

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L1

DESC: THEORY

REPN: UCRL 50790

TSHO: UG-VENTED

SUJO: 2-223-100 ; 2-224-200 ; 3-312-210 ; 3-312-220

TITL: CALCULATING EXPOSURES AT LONG DISTANCES FROM NUCLEAR-CRATERING

APPLICATIONS (U), 34 P., (U)

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21941

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copy: 1 id: 54588-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 21946

AUTH: ANSPAUGH L.R. ; PHELPS P.L. ; HOLLADAY G. ; HAMBY K.O.

CLSS: U

CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA.)

DATE: 7011

DESC: Nuclear Weapon Environment radiation decay isotopic half lives L1

DESC: Nuclear Weapon Environment fallout redistribution L5

DESC: Nuclear Weapon Environment Fallout Particles size distribution L5

DESC: EXPERIMENTAL

REPN: UCRL 72534

SHOT: SCHOONER

TSHO: UG-VENTED

SUJO: 2-222-300 ; 2-223-410 ; 2-225-500

TITL: DISTRIBUTION AND REDISTRIBUTION OF AIRBORNE PARTICULATES FROM THE
SCHOONER CRATERING EVENT (U), 21 P., (U)

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21946

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copy: 1 id: 54592-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 22169

AUTH: PRATT M.W.

CLSS: U

CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)

DATE: 7011

DESC: THEORY TABULAR

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1

REPN: UCRL 50163 PT. 7

SUJO: 3-312-200

TITL: PREDICTION OF THE DOSAGE TO MAN FROM THE FALLOUT OF NUCLEAR DEVICES;
PT. 7, ESTIMATION OF THE MAXIMUM DOSE RATE FROM THE CONTINUOUS
RELEASE OF RADIONUCLIDES TO THE BIOSPHERE (U), 75 P., (U)

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22169

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copy: 1 id: 54667-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 22302
AUTH: NIELSEN J.M.
CLSS: U
CORP: BATTELLE MEMORIAL INSTITUTE, PACIFIC NORTHWEST LABS. (RICHLAND, WA)
DATE: 7002
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1
REPN: BNWL 1307 PT. 2 ; UC 48
SUJO: 4-140-000
TITL: PACIFIC NORTHWEST LABORATORY ANNUAL REPORT FOR 1969 TO THE USAEC
DIVISION OF BIOLOGY AND MEDICINE; VOL. 2, PHYSICAL SCIENCES, PT. 2,
RADIOLOGICAL SCIENCES (U), 61 P., (U)

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copy: 1 id: 54783-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 22302-01
CLSS: U
CORP: BATTELLE MEMORIAL INSTITUTE, PACIFIC NORTHWEST LABS. (RICHLAND, WA)
DATE: 7000
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1
DESC: SUMMARY
DESC: Environmental Impact Assessments EIS Supporting Data L1
SUJO: 3-312-200 ; 4-870-200
SYMJ: PACIFIC NORTHWEST LABORATORY ANNUAL REPORT FOR 1969 TO THE USAEC
DIVISION OF BIOLOGY AND MEDICINE; VOL. 2, PT. 2
TITL: INHALATION HAZARDS TO URANIUM MINERS; (U), 4 P., (U)

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22302-01

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copy: 1 id: 54784-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 22409
AUTH: REISINGER M.J.
CLSS: U
CCDE: MAGIC (RADIATION TRANSPORT ; SHIELDING) ABERDEEN RESEARCH CENTER ;
SAM C
CORP: ARMY MATERIEL SYSTEMS ANALYSIS AGENCY (ABERDEEN PROVING GROUND, MD)
DATE: 6902
DESC: CODE
DESC: Cross Sections neutron L1
DESC: Cross Sections gamma L1
DESC: Radiation Transport neutron L1
DESC: Radiation Transport gamma L1
REPN: AMSAA TR 11

SUJO: 9-620-000 ; 9-650-000 ; 9-820-000 ; 9-830-000
TITL: MAGIC-SAM C TARGET ANALYSIS TECHNIQUE; VOL. 2, THE MAGIC AND SAM C
COMPUTER PROGRAMS (U), 681 P., (U)

TREE: 411 ; 412 ; 960 ; 970

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22409

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copy: 1 id: 54901-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 22410

AUTH: MARKING R.A.

CLSS: U

CCDE: MAGIC (RADIATION TRANSPORT ; SHIELDING) ABERDEEN RESEARCH CENTER

CORP: ARMY MATERIEL SYSTEMS ANALYSIS AGENCY (ABERDEEN PROVING GROUND, MD)

DATE: 6902

DESC: Radiation Transport gamma L1

DESC: CODE

DESC: Cross Sections gamma L1

DESC: Radiation Transport neutron L1

DESC: Cross Sections neutron L1

REPN: AMSAA TR 4

SUJO: 9-620-000 ; 9-650-000 ; 9-820-000 ; 9-830-000

TITL: MAGIC-SAM C TARGET ANALYSIS TECHNIQUES; VOL. 4, THE BRLESC OPERATION
OF MAGIC (U), 101 P., (U)

TREE: 411 ; 412 ; 960 ; 970

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copy: 1 id: 54902-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 22411

AUTH: MARKING R.A.

CLSS: U

CCDE: SAM C (RADIATION TRANSPORT) ABERDEEN RESEARCH CENTER ; MAGIC

CORP: ARMY MATERIEL SYSTEMS ANALYSIS AGENCY (ABERDEEN PROVING GROUND, MD)

DATE: 6902

DESC: Radiation Transport gamma L1

DESC: CODE

DESC: Radiation Transport neutron L1

REPN: AMSAA TR 13

SUJO: 9-620-000 ; 9-650-000

TITL: MAGIC-SAM C TARGET ANALYSIS TECHNIQUE; VOL. 5, THE BRLESC OPERATION
OF SAM C AND ITS PERIPHERAL PROGRAMS (U), 421 P., (U)

TREE: 960 ; 970

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copy: 1 id: 54903-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 22426

AUTH: MOONEY L.G.

CLSS: U

CORP: RADIATION RESEARCH ASSOCIATES, INC. (FT. WORTH, TX)

DATE: 6911

DESC: Cross Sections gamma L1

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects structures aboveground buildings L1 HARDENED

STRUCTURE

EFFT: GAMMA

REPN: RRA M93

SUJO: 3-251-000 ; 9-830-000

TITL: CALCULATIONS OF WEAPON RADIATION DOSES IN SINGLE-COMPARTMENT
ABOVE-GROUND CONCRETE STRUCTURES (U), 40 P., (U)

TREE: 411

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22426

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copy: 1 id: 54918-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 22476

AUTH: WEBSTER W.M.

CLSS: U

CCDE: SORS (LLL MONTE CARLO NEUTRON TRANSPORT)

CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)

DATE: 6901

DESC: Radiation Transport neutron L1 10 KEV TO 14 MEV

DESC: THEORY TABULAR

REPN: UCRL 50570

SUJO: 9-650-000

TITL: NEUTRON AIR TRANSPORT CALCULATIONS (U), 70 P., (U)

TREE: 370

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22476

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copy: 1 id: 54998-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 22482

AUTH: FRENCH R.L. ; MOONEY L.G.

CLSS: U
CORP: RADIATION RESEARCH ASSOCIATES (FT. WORTH, TX)
DATE: 6911
DESC: Radiation Transport neutron L1
DESC: HENRE ; EXPERIMENTAL TABULAR
REPN: RRA M92
SUJO: 9-650-000
TTTL: PREDICTION OF NUCLEAR WEAPON NEUTRON RADIATION ENVIRONMENTS (U), 38
P., (U)
TREE: 970

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22482
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copy: 1 id: 55013-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 22509
CLSS: U
CONN: AT (26 1) 410
CORP: REYNOLDS ELECTRICAL AND ENGINEERING CO., INC. (MERCURY, NV)
DATE: 7003
DESC: EXPERIMENTAL SUMMARY
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
DESC: Nuclear Weapon Test safety L1
REPN: NVO 410 4
TSHO: UG-CONTAINED
SUJO: 2-223-200 ; 4-856-000
TTTL: OPERATION BOWLINE ON-SITE RADIOLOGICAL SAFETY REPORT; JULY 1968
THROUGH JUNE 1969 (U), 46 P., (U)

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22509
.endblock
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copy: 1 id: 55037-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 22534
AUTH: ANSPAUGH L.R. ; CHERTOK R.J. ; CLEGG B.R. ; COHEN J.J. ; GRABSKE
R.J. ; HARRISON F.L. ; HEFT R.E. ; HOLLADAY G. ; KORANDA J.J. ; NG
Y.C. ; PHELPS P.L. ; POTTER G.B.

CLSS: U
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)
DATE: 6907
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
DESC: Nuclear Weapon Environment radiation decay isotopic half lives L1
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1

DESC: Nuclear Weapon Environment fallout transfer L1 TRANSFER INTO WATER
DESC: Nuclear Weapon Environment Fallout Particles size distribution L1
DESC: EXPERIMENTAL
REPN: UCRL 50718
SHOT: SCHOONER
TSHO: UG-VENTED
SUJO: 2-222-300 ; 2-223-100 ; 2-223-200 ; 2-223-410 ; 2-224-300 ;
2-225-100 ; 3-312-220
TTTL: BIO-MEDICAL DIVISION PRELIMINARY REPORT FOR PROJECT SCHOONER (U), 75
P., (U)

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22534

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copy: 1 id: 55056-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 22563
AUTH: MCCLELLAN R.O. ; RUPPRECHT F.C.
CLSS: U
CONN: AT (29 2) 1013
CORP: LOVELACE FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH (ALBUQUERQUE,
NM)
DATE: 6911
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
DESC: Nuclear RDT&E Research Program Descriptions biomedical L1
DESC: EXPERIMENTAL SURVEY
REPN: LF 41
SUJO: 3-312-220 ; 4-150-000
TTTL: FISSION PRODUCT INHALATION PROGRAM ANNUAL REPORT 1968-1969 (U), 250
P., (U)

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22563

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copy: 1 id: 55084-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 22618
AUTH: DUPREE S.A. ; SANDMEIER H.A.
CLSS: SRD
CONN: W 7405 ENG 36
CORP: LOS ALAMOS SCIENTIFIC LAB. (LOS ALAMOS, NM)
DATE: 6910
DESC: TABULAR
DESC: Nuclear Weapon Effects flight systems airplanes crew L1
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1
DESC: Nuclear Weapon Environment Prompt Neutron source strength total

fluence L1

DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L5

DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L1

DESC: Nuclear Weapon Effects flight systems airplanes structures L1

DESC: Nuclear Weapon Environment Initial Gamma energy spectrum L5

EFFT: X-RAY

REPN: LA 4220

TSHO: HI-ALT

SOCE: [REDACTED]

SUJO: 1-110-000 ; 1-120-000 ; 1-610-000 ; 1-710-000 ; 1-720-000 ;
3-111-100 ; 3-111-500

SYST: PHOENIX MISSILE

TEMP: A8716

TITL: RADIATION CONTOURS FROM NUCLEAR WEAPONS DETONATIONS (U), 34 P.,
(SRD)

TREE: 900

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22618

.endblock

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copy: 1 id: 55136-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 22715

AUTH: MARTIN J.A.

CLSS: U

CORP: MOLECULON RESEARCH CORP. (CAMBRIDGE, MA)

DATE: 7004

DESC: THEORY EXPERIMENTAL

DESC: test instruments nuclear radiation dosimeters radiacs L1

SUJO: 4-346-000

TITL: DOSIMETRY FOR INDUSTRIAL RADIATION SOURCES (U), 20 P., (U)

TREE: 655

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22715

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copy: 1 id: 55216-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 22763

AUTH: CHERTOK R.J. ; LAKE S.

CLSS: U

CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)

DATE: 7008

DESC: PLOWSHARE ; EXPERIMENTAL

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic

internal L1 INTERNAL DEPOSITION 15 RADIONUCLIDES SWINE BEAGLES
CRATER DEBRIS

REPN: UCRL 72589
TSHO: UG-VENTED
SUJO: 3-312-220
TITL: FATE OF FALLOUT INGESTED BY LIVESTOCK; SWINE (U), 10 P., (U)

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22763

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copy: 1 id: 55329-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 22879
AUTH: FLEMING E.H.
CLSS: U
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)
DATE: 6904
DESC: CALCULATIONS OF EARTH MASS FROM WHICH ENTIRE QUANTITY OF
RADIONUCLIDE MUST BE EXTRACTED AND INGESTED TO RECEIVE PERMISSIBLE
DOSE ; THEORY

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1

EFFT: IONIZING RADIATION

REPN: UCRL 71659 ; CONF 690406 1

TSHO: UG-VENTED

SUJO: 3-312-220

TITL: MASS EXTRACTION RATES OF RADIONUCLIDES IN FALLOUT MATERIAL FROM A
170-KT NUCLEAR CRATER (U), 30 P., (U)

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22879

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copy: 1 id: 55449-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 22880

ABS: A method has been developed for predicting the internal dose that
could result when radionuclides are released to the atmosphere and
deposited on agricultural land. This approach has been used to
extend earlier studies on the problems associated with food
contamination following a nuclear attack. The study considers
activation products as well as fission products. It attempts to take
into account recent data on the retention and rate of loss by
weathering of both small and large particles on plants, on the
uptake of nuclides into dietary constituents, and on the biological
availability of nuclides in nuclear debris. In this study, potential
levels of food contamination and internal dose commitment are
estimated both for the immediate postattack period and during the
year closely following the attack when the initial deposition rates
of stratospheric debris would be highest.

ABS: The results are discussed in the light of the modifying factors that

would influence them.

AUTH: NG Y.C. ; TEWES H.A.
CLSS: U
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)
DATE: 7010
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
DESC: CALCULATED BODY BURDEN FROM EARLY AND DELAYED FALLOUT ON PLANTS VIA
MILK AND MEAT OF GRAZING ANIMALS ; THEORY
EFFT: IONIZING RADIATIONS
REPN: UCRL 72716 REV. 1 ; CONF 700909 3
SUJO: 3-312-220
TITL: RADIONUCLIDE BODY BURDENS AND HAZARDS FROM INGESTION OF FOODSTUFFS
CONTAMINATED BY FALLOUT (U), 80 P., (U)

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22880

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copy: 1 id: 55450-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 23088
AUTH: KENNEDY D.P.
CLSS: U
CONN: F 19628 67 C 0116
CORP: IBM CORP. (HOPEWELL JUNCTION, NY)
DATE: 6901
DESC: THEORY
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
EFFT: TREE
REPN: AFCRL 69 0086
SUJO: 3-221-000
TITL: MATHEMATICAL SIMULATION OF THE EFFECTS OF IONIZING RADIATION ON
SEMICONDUCTORS (U), 60 P., (U)
TREE: 310

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copy: 1 id: 55630-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 23089
AUTH: SNOW E.H. ; ALBUS H.P. ; CAGNINA S.F. ; FITZGERALD D.J. ; KAUFFMAN
W.L. ; DOWNING J.P.
CLSS: U
CONN: AF 19 (628) 5747
CORP: FAIRCHILD CAMERA AND INSTRUMENT CORP. (MT. VIEW, CA)
DATE: 6901

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 MOS CAPACITORS
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 MOSFET-S PLANAR DIODES BIPOLAR
TRANSISTORS J FET-S
DESC: SIMULATION (FLASH X-RAY X-RAY MACHINE REACTOR) ; EXPERIMENTAL
EFFT: TREE
REPN: AFCRL 69 0045
SUJO: 3-221-000 ; 3-229-000
TITL: RADIATION STUDY ON MOS STRUCTURES (U), 171 P., (U)
TREE: 325

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copy: 1 id: 55631-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 23091
AUTH: SHERMAN C.H. ; GORDON N.E.
CLSS: U
CONN: F 19628 68 C 0188
CORP: PARKE MATHEMATICAL LABS., INC. (CARLISLE, MA)
DATE: 7008
DESC: Radiation Transport x-ray L1
DESC: THEORY
REPN: PML TM 16
SUJO: 9-640-000
TITL: CALCULATION OF THE RADIATION DOSE AT THE INTERFACE BETWEEN
DISSIMILAR MEDIA (U), 23 P., (U)
TREE: 200

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copy: 1 id: 55633-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 23114
AUTH: KOOI C.F. ; KUSNEZOV N.
CLSS: U
CCDE: CAPD
CORP: LOCKHEED PALO ALTO RESEARCH LAB. (PALO ALTO, CA)
DATE: 7000
DESC: Radiation Transport x-ray L1
DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL
EFFT: X-RAY
EMPF: 391
SUJO: 9-640-000
TITL: X-RAY PRODUCED CHARGE DISTRIBUTIONS AT INTERFACES BETWEEN MATERIALS

OF DIFFERENT ATOMIC NUMBER (U), 25 P., (U)

TREE: 990

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23114

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copy: 1 id: 55652-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 23115

AUTH: SHERMAN C.H.

CLSS: U

CONN: F 19628 68 C 0188

CORP: PARKE MATHEMATICAL LABS., INC. (CARLISLE, MA)

DATE: 7012

DESC: Radiation Transport electron L1

DESC: THEORY

SUJO: 9-680-000

TITL: THEORY OF RADIATION DOSE IN CAVITIES AND NEAR BOUNDARIES (U), 25 P.,
(U)

TREE: 990

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copy: 1 id: 55653-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 23273

AUTH: MEASEL P.R. ; SAYLE W.E.

CLSS: U

CONN: F 04701 68 C 0193

CORP: BOEING CO. (SEATTLE, WA)

DATE: 7011

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1

DESC: SIMULATION (FLASH X-RAY REACTOR CO 60) ; EXPERIMENTAL

EFFT: TREE

REPN: D2 126218 4

SUJO: 3-222-000

TITL: ADVANCED GUIDANCE SYSTEM RADIATION STUDIES--LSI MICROCIRCUIT AND
WAFER TESTS (U), 37 P., (U)

TREE: 320

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23273

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copy: 1 id: 55786-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 23276
CLSS: U
CCDE: I/TRAC
CORP: BERNE ELECTRONICS, INC. (WHITE PLAINS, NY)
DATE: 7007
DESC: THEORY
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1
EFFT: TREE
EMPF: 330
REPN: JPL TR 32 1429
SUJO: 3-219-000
TITL: I/TRAC; INTERACTIVE TRANSIENT RADIATION ANALYSIS BY COMPUTER PROGRAM
USER'S REFERENCE MANUAL (U), CA. 50 P., (U)
TREE: 250 ; 330

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copy: 1 id: 55789-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 23344
AUTH: KINGSLAND R.H. ; HONNOLD V.R. ; LOVELAND R.D. ; RUSSELL R.L. ;
SKAVLAND R.L.
CLSS: U
CONN: F 04701 68 C 0145
CORP: HUGHES AIRCRAFT CO. (FULLERTON, CA)
DATE: 6901
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1

EFFT: TREE
REPN: FR 60 10 69 ; SAMSO TR 69 7 VOL. 2, PT. 1
SUJO: 3-221-000 ; 3-222-000 ; 3-229-000
TITL: RADIATION EFFECTS ON SPACE POWER SUBSYSTEMS (HANDBOOK); VOL. 2, PT.
1 (U), 243 P., (U)
TREE: 100

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23344

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copy: 1 id: 55839-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 23347
AUTH: POTTER G.D. ; VATTUONE G.M. ; MCINTYRE D.R.
CLSS: U

CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)
DATE: 7010
DESC: PLOWSHARE ; EXPERIMENTAL SUMMARY
DESC: Animal Studies L1 74 AS 188 RE 131 I FALLOUT
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1 MEAT MILK FETUS
REPN: UCRL 72511
SHOT: SCHOONER
TSHO: UG-VENTED
SUJO: 3-312-220 ; 6-500-000
TITL: FATE OF SCHOONER FALLOUT RADIONUCLIDES INGESTED BY THE DAIRY COW
(U), 18 P., (U)

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copy: 1 id: 55842-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 23460
CLSS: U
CORP: VIRGINIA POLYTECHNIC INSTITUTE (BLACKSBURG, VA)
DATE: 6908
DESC: Radiation Transport neutron L1
REPN: ORO 3858 1 ; CONF 690108
SUJO: 9-650-000
TITL: NEUTRON TRANSPORT THEORY CONFERENCE, JANUARY 14-20, 1969 (U), 675
P., (U)
TREE: 970

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copy: 1 id: 55947-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 24028
AUTH: HORNE W.E. ; FOLSOM J.A.
CLSS: U
CORP: BOEING CO. (SEATTLE, WA)
DATE: 6910
DESC: SIMULATION (CO 60) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
EFFT: TREE
REPN: D2 126230 1
SUJO: 3-221-000
TITL: PREDICTING LOW-DOSE RADIATION SURVIVAL PROBABILITY FOR TRANSISTORS
(U), 39 P., (U)
TREE: 310

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24028
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copy: 1 id: 56365-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 25583
ADNO: 883195
AUTH: BUEHLER M.G. ; CRABBE J.S. ; MATZEN W.T.
CLSS: U
CONN: F 19628 68 C 0184
CORP: TEXAS INSTRUMENTS, INC. (DALLAS, TX)
DATE: 7010
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
EFFT: TREE
REPN: TI 03 71 01 ; AFCRL 71 0080
SUJO: 3-221-000
TITL: INVESTIGATION OF RADIATION EFFECTS IN SEMICONDUCTORS (U), 139 P.,
(U)
TREE: 310

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25583
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copy: 1 id: 57527-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 26379
AUTH: COPELAND A.S. ; FOGLER R.A.
CLSS: SRD
CONN: F 04701 69 C 0124
CORP: GENERAL RESEARCH CORP. (SANTA BARBARA, CA)
DATE: 6907
DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical
devices sensors IR detectors L1
DESC: THEORY
EFFT: X-RAY ; TREE
REPN: IMR 1119 ; DRC 69 16438
SUJO: 3-133-000
TEMP: 73994
TITL: EFFECTS OF HARD RADIATION ON OPTICAL SENSORS (U), 52 P., (SRD)
TREE: 361

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26379
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copy: 1 id: 58076-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 27270
AUTH: WICKLUND J.S.
CLSS: U
CORP: HARRY DIAMOND LABS. (WASH., DC)
DATE: 7005
DESC: Radiation Transport neutron L1
DESC: TABULAR
REPN: HDL TR 1494
SUJO: 9-650-000
TITL: NEUTRON FLUENCE AND DAMAGE IN SILICON FOR FREE AIR OVER AN EARTH
SURFACE (U), 54 P., (U)
TREE: 970

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27270
.endblock
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copy: 1 id: 58778-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 28576
AUTH: MILLER R.W.
CLSS: U
CORP: NATIONAL INSTITUTES OF HEALTH, EPIDEMIOLOGY BRANCH AT THE NATIONAL
CANCER INSTITUTE (BETHESDA, MD)
DATE: 6900
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: EXPERIMENTAL
SHOT: HIROSHIMA ; NAGASAKI
SUJO: 3-312-100
TITL: DELAYED RADIATION EFFECTS IN ATOMIC-BOMB SURVIVORS; MAJOR
OBSERVATIONS BY THE ATOMIC BOMB CASUALTY COMMISSION ARE EVALUATED
(U), 6 P., (U)

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28576
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copy: 1 id: 59851-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 29418
CLSS: SRD
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 6903
DESC: TABULAR
DESC: Nuclear Weapon Effects flight systems airplanes crew L1
DESC: Nuclear Weapon Environment Thermal Output rate L1

EFFT: THERMAL ; AIR-BLAST
REPN: NRDL LR 69 23
SUJO: 1-240-000 ; 3-111-500
SYST: A-7 AIRCRAFT
TEMP: B7728
TTTL: RADIATION EXPOSURES INCIDENT ON THE PILOT OF AN A-7 AIRCRAFT FLYING
NEAR A NUCLEAR DETONATION (U), 22 P., (SRD)

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29418
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copy: 1 id: 60424-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 29541

ABS: The significant gamma radiation fields which would result from
detonation of nuclear ASW weapons are predicted for the first
half-hour after burst. For each weapon detonated at a given depth of
burst, graphs are presented which describe the base surge and pool
dimensions and free-field exposure rate histories at 15 feet above
the water surface for a no-wind, no-current environment. In
addition, tables are provided which describe the exposure rate
fields resulting from bottom detonations at shallower depths of
burst. A plotting-board procedure is presented by which the
gamma-exposure rates can be calculated taking into account the
motion imparted to the base surge by the wind and to the pool by the
current, as well as movement of a ship. This procedure is
illustrated in a sample problem.

CLSS: SRD
CCDE: DAEDALUS (FALLOUT) NRDL
CORP: NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO, CA)
DATE: 6902
DESC: Nuclear Warfare Theater operations scenarios battlefield environment

L1

DESC: TABULAR
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1
POOL RADIOACTIVITY

REPN: NRDL TR 69 10
TSHO: UW
SUJO: 2-225-100 ; 3-411-200
TEMP: B7727
TTTL: RADIOLOGICAL EFFECTS OF NAVY NUCLEAR ASW WEAPONS (U), 41 P., (SRD)
TNFF: 4860

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29541
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copy: 1 id: 60529-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 29667
AUTH: MULLEN O.W. ; EUBANK B.F.
CLSS: U
CONN: AT (26 1) 410
CORP: REYNOLDS ELECTRICAL AND ENGINEERING CO., INC. (LAS VEGAS, NV)
DATE: 6901
DESC: Nuclear Weapon Test safety L1
DESC: SUMMARY
REPN: NVO 410 24
TSHO: UG-CONTAINED
SUJO: 4-856-000
TITL: OPERATION WHETSTONE, ONSITE RADIOLOGICAL SAFETY REPORT; JULY 1964
THROUGH JUNE 1965 (U), 50 P., (U)

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copy: 1 id: 60613-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 29937
AUTH: CONARD R.A.
CLSS: U
CORP: BROOKHAVEN NATIONAL LAB. (UPTON, NY)
DATE: 6900
DESC: SUMMARY
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
EFFT: GAMMA ; BETA
REPN: BNL 21924 ; CONF 766939 1
SHOT: BRAVO
SUJO: 3-312-220
TITL: SUMMARY OF THYROID FINDINGS IN MARSHALLESE 22 YEARS AFTER EXPOSURE
TO RADIOACTIVE FALLOUT (U), 15 P., (U)

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copy: 1 id: 60785-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 29943
AUTH: CONARD R.A.
CLSS: U
CORP: BROOKHAVEN NATIONAL LAB. (UPTON, NY)
DATE: 6900
DESC: RONGELAP, ALINGINAE, UTIRIK ; SURVEY
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1
EFFT: GAMMA ; BETA
REPN: BNL 50220

SHOT: BRAVO
TSHO: SURFACE
SUJO: 3-312-200
TTTL: MEDICAL SURVEY OF THE PEOPLE OF RONGELAP AND UTIRIK ISLANDS
THIRTEEN, FOURTEEN, AND FIFTEEN YEARS AFTER EXPOSURE TO FALLOUT
RADIATION (MARCH 1967, MARCH 1968, AND MARCH 1969) (U), 128 P., (U)

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copy: 1 id: 60791-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 29951

ABS: One of the many problems necessitating the attention of the physician in case of an atomic war is the timely diagnosis of internal radioactive contamination. This problem, to be sure, is of little consequence from the strict tactical-operations standpoint, i.e., from the standpoint of the soldier's use on the battlefield: it has been demonstrated in fact that in an individual exposed to radioactive contamination the danger deriving from consistent internal irradiation due to the incorporation of radioactive material is much less than that stemming from external exposure to gamma radiation. This is demonstrated in the case of the inhabitants of the Marshall Islands who were affected by the radioactive fallout of the Bikini experimental explosion.

ABS: Calculations showed that they had received as many as 175 roentgens through external gamma radiation and only 10 roentgens through mixed internal radiation (6). Hence external irradiation by gamma radiation is a more important determinant of the field employment of the soldier than internal irradiation, whatever its nature. Yet, so far as the physician is concerned, internal contamination represents a problem that must not be underestimated from the standpoint both of its own peculiar aspect and of its consequences, sometimes serious to health, consequences that may affect not only the individual but the collective as well. Many researchers have focused attention on this matter. It must be pointed out in fact that internal contamination may cause serious harm not only to the individual in time.

ABS: Its diffusion may represent a not negligible potential risk to the collective as well, thereby being of social importance.

ADNO: B048748L

AUTH: PULCINELLI M.

CLSS: U

CORP: ARMY MEDICAL INTELLIGENCE AND INFORMATION AGENCY (FT. DETRICK, MD)

DATE: 7008

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1

DESC: SURVEY

REPN: USAMIIA J 8706

SUJO: 3-312-220

TTTL: IMPORTANCE, PURPOSE AND METHOD OF EARLY FIELD DIAGNOSIS OF INTERNAL

RADIOACTIVE CONTAMINATION IN SOLDIERS (U), 15 P., (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 30006

ADNO: 683588

AUTH: AUERBACH S.I. ; WITHERSPOON J.P. JR. ; KITCHINGS J.T. III ; DUNAWAY
P.B. ; STYRON C.E. JR. ; SHINN A.F.

CLSS: U

CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TN)

DATE: 6903

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L5 COTTON RAT HONEY BEE

DESC: Nuclear Weapon Effects on plants ionizing radiation chronic external
L5

DESC: SUMMARY

DESC: Nuclear Weapon Effects ecological L1 ORNL PROGRESS REPORTS

EFFT: X-RAY ; GAMMA ; BETA

REPN: ORNL TM 2466

SUJO: 3-312-220 ; 3-332-210 ; 3-341-000

TITL: PROGRESS REPORT IN POSTATTACK ECOLOGY (U), 60 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 30491

ABS: The principal objectives of this investigation were to provide estimates of the increase in the number of survivors and effective survivors that might be achieved in tactical and strategic nuclear warfare environments through the use of radiation protection drugs. A secondary objective was to provide estimated dose burden distributions among survivors. This preliminary study was confined to representative cases and selected variations in the parameters, since a detailed study of all variables would have required a large amount of effort and time. Specifically, only one tactical nuclear scenario and one strategic nuclear scenario were studied. The following assumptions were made in coordination with the client for use in assessing possible effects of radiation protection agents?

ABS: (1) DRFS (dose reduction factors) are applied and varied over a reasonable range to account for present and future potentials, (2) there is no dependence between dose level and DRF, (3) the effectiveness period of the drug covers the whole nuclear engagement, (4) there is a linear protection over time, and (5) the

drug is equally effective against gamma and neutron radiation.

ADNO: 511281
AUTH: PILZ U.F. ; RYAN J.W. ; TERESI J.D. ; DOLAN P.J.
CLSS: SRD
CONN: DADA17 70 C 0068
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK, CA)
DATE: 7007
DESC: Nuclear Warfare Theater Survivability Security Safety L1
DESC: TABULAR
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: Nuclear Warfare Strategic Survivability Security Safety L1
REPN: SRI PROJ 8379 ; SRI 0 850
SUJO: 3-312-100 ; 3-412-100 ; 3-422-100
TEMP: C0387
TITL: OPERATIONAL STUDY OF THE USE OF RADIATION PROTECTION AGENTS TO
INCREASE SURVIVORS IN TACTICAL AND STRATEGIC NUCLEAR WARFARE
ENVIRONMENTS (U), 122 P., (SRD)

TNFF: 5602

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copy: 1 id: 61200-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 30745

ABS: The vulnerability of the b61 bomb to fire, impact, fragments, shipboard electromagnetic radiation environment, and other potentially hazardous accidental environments, are discussed. When applicable, information is included on the design features of the bomb that ensure invulnerability to these environments. Results of tests conducted by Sandia Laboratories, Albuquerque, and Los Alamos Scientific Laboratory to verify the design and to demonstrate that the bomb satisfies the requirements of the military characteristics and the stockpile-to-target sequence are also included. Although it is concluded that most of the desired vulnerability goals have been achieved, information is included on the magnitude of potential hazards and the operational implications that would result from the undesired response of the bomb.

ADNO: 509183L
AUTH: TILLERY R.J.
CLSS: SRD
CORP: NAVAL WEAPONS EVALUATION FACILITY (ALBUQUERQUE, NM)
DATE: 7005
DESC: TABULAR
DESC: Nuclear weapon safety L1
REPN: NWEF 1069
SUJO: 4-838-000
SYST: B-61 BOMB
TEMP: C0571
TITL: VULNERABILITY OF THE B61 BOMB (U), 20 P., (SRD)
TNFF: 8805

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30745

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copy: 1 id: 61435-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 30799

AUTH: SCHOCK R.N. ; LOUIS H. ; LILLEY E.M.

CLSS: U

CCDE: MODROC (ROCK MODULES OF ELASTICITY) L3

CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA)

DATE: 6909

DESC: THEORY TABULAR

DESC: Soil Rock Properties Equation of State Conductivity L1

REPN: UCRL 50750

TSHO: UG-VENTED

SUJO: 6-300-000

TITL: DETERMINATION OF ACOUSTIC VELOCITIES AND DYNAMIC ELASTIC MODULI IN
ROCKS UNDER PRESSURE (U), 38 P., (U)

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30799

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copy: 1 id: 61487-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 31005

AUTH: STEPHENS D.R. ; LOUIS H. ; LILLEY E.M.

CLSS: U

CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA)

DATE: 6902

DESC: Environmental Conditions at Nuclear Weapon Test Site geology L1

DESC: THEORY EXPERIMENTAL

REPN: UCRL 50554

SUJO: 4-842-000

TITL: LOADING-UNLOADING PV CURVES FOR TUFFS FROM THE NEVADA TEST SITE (U),
30 P., (U)

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31005

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copy: 1 id: 61682-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 31698

ADNO: 515415L

CLSS: S

CONN: N 00140 70 C 0015
CORP: RAYTHEON CO. (SUDBURY, MA)
DATE: 7006
DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio
microwave systems antennas L1
DESC: Nuclear Weapon Effects ship systems surface ships L1 ANTENNA
DESC: THEORY TABULAR
EFFT: THERMAL ; AIR-BLAST ; INTEGRATED
REPN: SR 70 4180
SUJO: 3-122-000 ; 3-132-210
SYST: AN/SPS-49
TEMP: C1605
TITL: STUDY OF COMBINED THERMAL RADIATION -AERODYNAMIC AIR BLAST LOAD AND
RADAR PERFORMANCE ANALYSES OF THE AN/SPS-49 ANTENNA (U), CA. 300 P.,
(S)

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31698

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copy: 1 id: 62363-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 31902
ADNO: 108849
AUTH: BOCHE R.D.
CLSS: U
CONN: AF 33(038) 27353
CORP: AIR FORCE RADIATION LAB. (CHICAGO, IL)
DATE: 7000
DESC: SURVEY
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L1
SUJO: 3-312-100 ; 3-312-210
TITL: RADIATION AND SUSCEPTIBILITY TO INFECTION (A LITERATURE SURVEY) (U),
63 P., (U)

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31902

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copy: 1 id: 62558-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 31921
ADNO: 860485L
AUTH: HOFFMAN D.W.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA)
DATE: 6907
DESC: THEORY CODE

DESC: Nuclear Warfare Theater operations scenarios force allocation
selection L1
REPN: NRDL TR 69 64
SUJO: 3-411-600
TITL: OPTIMUM MISSILE-ALLOCATION PROBABILITY OF DESTROYING A RANDOMLY
MANEUVERING SHIP WITH NUCLEAR IRBM'S (U), 74 P., (U)

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31921

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 32206
ADNO: C007272L
AUTH: BAUER R.W.
CLSS: U
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA)
DATE: 7011
DESC: Directed Energy Weapons Electron Beams RDT&E Programs L1
DESC: SEESAW ; SUMMARY
REPN: UCID 15762
SUJO: 3-620-400
TITL: BEAM PLASMA EXPERIMENT, PROJECTIONS FOR PHASE II AND PHASE III (U),
18 P., (U)

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32206

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copy: 1 id: 62860-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 32228
ADNO: C007271L
AUTH: BAUER R.W.
CLSS: U
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA)
DATE: 7010
DESC: SEESAW ; EXPERIMENTAL
DESC: Directed Energy Weapons Electron Beams Technology Propagation L1
REPN: UCID 15760
SUJO: 3-621-300
TITL: BEAM PLASMA EXPERIMENTS, PHASE I SUMMARY (U), 54 P., (U)

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32228

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copy: 1 id: 62882-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 32441
ADNO: C951455L
AUTH: CHRISTOFILOS N.C.
CLSS: SRD
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA)
DATE: 7006
DESC: Directed Energy Weapons Electron Beams Technology Propagation L1
DESC: SEESAW ; THEORY
REPN: UCID 15663
SUJO: 3-621-300
TEMP: C2169
TITL: APPLICATIONS OF SHORT PULSES (U), 25 P., (SRD)

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copy: 1 id: 63092-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 33580
ADNO: C006196
AUTH: ROGERS B.B. ; BIGONI R.A.
CLSS: SRD CNWDI
CCDE: FLYBY
CORP: AIR FORCE WEAPONS LAB. (KIRTLAND AFB, NM)
DATE: 7006
DESC: Nuclear Weapon Effects ordnance bombs mines warheads nuclear L1
DESC: TABULAR
EFFT: NEUTRON ; GAMMA
REPN: AFWL TR 70 69
SUJO: 3-161-100
TEMP: C2976
TITL: MULTIPLE R/V DELAYED RADIATION ENVIRONMENT (U), 110P., (SRD/CNWDI)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 34416
ADNO: 689046
AUTH: KARAKCHIYEV N.I.
CORP: ARMY FOREIGN SCIENCE AND TECHNOLOGY CENTER (WASH., DC)
DATE: 6905
DESC: Civil Defense USSR L1
DESC: Civil Defense transattack measures radiological defense monitoring
decontamination L1

REPN: FSTC HT 23 891 68
SUJO: 3-476-120 ; 3-479-200
TITL: MILITARY TOXICOLOGY AND PROTECTION AGAINST WEAPONS OF MASS
DESTRUCTION (U), 292 P., (U)

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34416
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copy: 1 id: 65089-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 35441
CLSS: U
CORP: INTERNATIONAL COMMISSION ON RADIATION UNITS AND MEASUREMENTS (WASH.,
DC)
DATE: 6909
DESC: test instruments nuclear radiation neutron L1
DESC: THEORY
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
REPN: ICRU 13
SUJO: 3-312-100 ; 4-342-000
TITL: NEUTRON FLUENCE, NEUTRON SPECTRA AND KERMA (U), 57 P., (U)
TREE: 652

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copy: 1 id: 66144-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 35442
CLSS: U
CORP: INTERNATIONAL COMMISSION ON RADIATION UNITS AND MEASUREMENTS (WASH.,
DC)
DATE: 7006
DESC: THEORY
DESC: Atomic Molecular Physics Chemistry L1
REPN: ICRU 16
SUJO: 9-020-000
TITL: LINEAR ENERGY TRANSFER (U), 51 P., (U)

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35442
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copy: 1 id: 66145-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 35443

CLSS: U
CORP: INTERNATIONAL COMMISSION ON RADIATION UNITS AND MEASUREMENTS (WASH., DC)
DATE: 7010
DESC: EXPERIMENTAL
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic sources L1
REPN: ICRU 18
SUJO: 4-241-000
TITL: SPECIFICATION OF HIGH ACTIVITY GAMMA-RAY SOURCES (U), 26 P., (U)
TREE: 642

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copy: 1 id: 66146-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 35551
AUTH: KELSO J.R.
CLSS: U
CORP: DASA (WASH., DC)
DATE: 6900
DESC: Nuclear RDT&E Research Program Descriptions thermal optical L1
SUJO: 4-180-000
TITL: THERMAL RADIATION PHENOMENA (U), 20 P., (U)

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35551
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copy: 1 id: 66250-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 40546
TITL: Effects of Radiations on Various Cover Glasses and Cover Glass/solar Cell Assemblies (U), 48 p., (U)
AUTH: Harwood M.G. ; Middel V.J. ; Dollery A.A.
CORP: United Kingdom Royal Aircraft Establishment (Harwell UK)
DATE: 6909
ADNO: B969392L
CLSS: U

ABS: Report presents results of a study carried out jointly by the Central Materials Laboratory and the Space Department of the Royal Aircraft Establishment. The effect of radiations met with in space on materials thought to be useful as cover glasses for solar cells has been examined. Conventional covers at present in use have been compared with these alternative materials. Electrons, protons and UV have all been employed in the experiments. Although it has not been possible to give these radiations simultaneously, attempts have been made to estimate the significance of this. A new cover glass

material containing ceria, which had been previously developed and reported on, has been proven during this study and shown to be superior and potentially cheaper than the products currently in use.

DESC: Solar Cells ; Glass Seals ; Radiation Effects ; Cover Glasses ;
Experimental

EFFT: electrons ; protons

SUJO: 3-241-000

ACCD: 920324

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copy: 1 id: 144109-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 3/25/1992 type: REPORT permanent

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INUM: ACT 1-1-05

ABS: This note presents a subroutine to generate spherical Bessel functions of the first and second kind for complex arguments. The algorithm and checking procedure is described. A subroutine to check the error in the Wronskian of the spherical Bessel functions is also presented.

AUTH: Brittingham J.N. ; Petronelli P.L.

CLSS: U

CCDE: SPHBSL (MATH SUBROUTINE) LLL

CORP: Lawrence Radiation Lab. (Livermore, CA.)

DATE: 6910

DESC: THEORY CODE

DESC: Mathematics L1

SUJO: 9-990-000

SYMJ: Analytical and Computational Techniques Mathematics Notes; Vol. 1,
Notes 1-15 (U)

TITL: SPHBSL: A Subroutine to Generate Spherical Bessel Functions for
Complex Arguments and Integer Orders (U), 17 P., (U)

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ACT 1-1-05

.endblock

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copy: 1 id: 50211-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: ACT 1-1-06

ABS: This note presents a subroutine to generate spherical Bessel function of first and second kind for real arguments. The algorithm and checking procedure are described. A subroutine to check the error in the Wronskian of the spherical Bessel function is also presented.

AUTH: Brittingham J.N. ; Petronelli P.L.

CLSS: U

CCDE: SPHBSLR (MATH SUBROUTINE) LLL

CORP: Lawrence Radiation Lab. (Livermore, CA)

DATE: 6910
DESC: Mathematics L1
DESC: THEORY CODE
SUJO: 9-990-000
SYMJ: Analytical and Computational Techniques Mathematics Notes; Vol. 1,
Notes 1-15 (U)
TITL: SPHBSLR: A Subroutine to Generate Spherical Bessel Functions for
Real Arguments (U), 11 P., (U)

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ACT 1-1-06

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copy: 1 id: 50212-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: CEX 65.13
AUTH: CHEKA J.S.
CLSS: U
CORP: ATOMIC ENERGY COMMISSION
DATE: 6905
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects structures aboveground components L1
EFFT: NEUTRON
REPN: CEX 65.13
SHOT: HIROSHIMA ; NAGASAKI
SUJO: 3-251-100
TITL: DISTRIBUTION OF RADIATION FROM A 14 MEV NEUTRON SOURCE IN AND NEAR
STRUCTURES (U), 33 P., (U)

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CEX 65.13

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copy: 1 id: 72769-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: CEX 68.4
AUTH: RHOADS W.A. ; PLATT R.B. ; HARVEY R.A.
CLSS: U
CORP: EG+G INC. (SANTA BARBARA CA)
DATE: 6905
DESC: Nuclear Weapon Environment Fallout beta intensities
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra
DESC: Nuclear Weapon Effects on plants ionizing radiation prompt
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic external
REPN: CEX 68.4
SHOT: PALANQUIN
TSHO: UG-VENTED
SUJO: 2-223-200 ; 2-223-300 ; 3-332-100 ; 3-332-210
TITL: RADIOSENSITIVITY OF CERTAIN PERENNIAL SHRUB SPECIES BASED ON A STUDY

OF THE NUCLEAR EXCAVATION EXPERIMENT, PALANQUIN, WITH OTHER
OBSERVATION OF EFFECTS ON THE VEGETATION (U), 42 P (U)

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CEX 68.4

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copy: 1 id: 72772-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: CEX 69.5

AUTH: BURSON Z.G.

CLSS: U

CORP: ATOMIC ENERGY COMMISSION

DATE: 7010

DESC: SIMULATION (CO-60) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects structures aboveground components L1

DESC: Cross Sections gamma L1

EFFT: GAMMA

REPN: CEX 69.5

SUJO: 3-251-100 ; 9-830-000

TITL: EXPERIMENTAL EVALUATION OF THE FALLOUT-RADIATION PROTECTION PROVIDED
BY STRUCTURES IN THE CONTROL POINT AREA OF THE NEVADA TEST SITE (U),
120 P., (U)

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CEX 69.5

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1243 R

ADNO: B114860L

CLSS: U

CORP: DEFENSE ATOMIC SUPPORT AGENCY (WASHINGTON-D.C.)

DATE: 6908

DESC: test instruments nuclear radiation

DESC: SUMMARY HANDBOOK

DESC: test instruments nuclear radiation dosimeters radiacs L1

REPN: DASA 1243 R ; DNA(AR) 124 3M

SUJO: 4-340-000 ; 4-346-000

TITL: LIST OF MILITARY AND CIVIL DEFENSE RADIAC DEVICES (U), 36 P (U)

TREE: 650 ; 655

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DASA 1243 R

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copy: 1 id: 74105-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1420(6)
AUTH: KALINOWSKI J.J. ; THATCHER R.K.
CLSS: U
CONN: DASA 01 68 C 0067
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)
DATE: 6909
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: TREE ; SUMMARY
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1
DESC: Nuclear Weapon Effects electronic pieceparts solar cells L1
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
REPN: DASA 1420ED2 R2
SUJO: 3-219-000 ; 3-221-000 ; 3-222-000 ; 3-223-000 ; 3-229-000 ;
3-231-000
TITL: TREE (TRANSIENT-RADIATION EFFECTS ON ELECTRONICS) HANDBOOK (U), 486
P (U)

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DASA 1420(6)

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copy: 1 id: 74298-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1892 4

ABS: This Volume (chapter 6 of the handbook) describes the various
sources of radiation produced by a nuclear explosion and presents
techniques for calculating the transport of the radiations from the
point of burst to the surface of a shield, i.e., it presents methods
for determining source terms for shield attenuation calculations.
The emphasis is on initial radiation, i.e., that produced within the
first minute following the explosion.

ADNO: 399683L

AUTH: SELPH W.E. ; WELLS M.B.

CLSS: SRD 1 CNWDI

CORP: OAK RIDGE NATIONAL LABORATORY (OAK RIDGE-TN)

DATE: 6912

DESC: Composition Chemistry Atmosphere Reaction Rates L5

DESC: Nuclear Weapon Environment fallout intensity contours patterns L5

GAMMA DOSE RATE PREDICTIONS

DESC: SHIELDING ; HANDBOOK TABULAR

DESC: Nuclear Weapon Environment Initial Gamma L5

DESC: Nuclear Weapon Environment Prompt Neutron angular distribution L5

NOMOGRAMS MONTE CARLO KERNAL METHOD

DESC: Radiation Transport gamma L1 GAMMA PROMPT FISSION PRODUCTS SCEONDARY
MONOENERGETIC

DESC: Ionosphere L5

DESC: Nuclear Weapon Environment Initial Gamma source strength total

intensity L5

DESC: General Atmospheric Properties L5

DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L9
P37

DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L5

DESC: Nuclear Weapon Environment Initial Gamma energy spectrum L5

REPN: DASA 1892 4

SUJO: 1-130-000 ; 1-710-000 ; 1-720-000 ; 1-740-000 ; 1-750-000 ;
2-225-100 ; 5-100-000 ; 5-200-000 ; 5-400-000 ; 5-700-000 ;
9-620-000

TEMP: 67845

TITL: WEAPONS RADIATION SHIELDING HANDBOOK, CHAPTER 6 OF WEAPONS RADIATION
SHIELDING HANDBOOK(U), 330 P, (SRD CNWDI)

TREE: 411 ; 412

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DASA 1892 4

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 1892 5

ABS: This Volume (chapter 2 of the handbook) describes the basic concepts
underlying the methods used for weapon radiation shield analyses.
These concepts include the quantities used to describe particle
populations and the quantities used to describe radiation
interactions with materials. The characteristics of the particular
radiations produced by weapons, neutrons and gamma rays, are
discussed in detail, including their physical properties and their
important interactions. The processes by which neutrons and gamma
rays are produced also are described. The chapter also discusses the
various response functions that are used to convert a radiation
field to a biological effect.

ADNO: 707082

AUTH: STEVENS P.N. ; CLAIBORNE H.C.

CLSS: U

CONN: 40 36 64

CORP: OAK RIDGE NATIONAL LABORATORY (OAK RIDGE-TN)

DATE: 7006

DESC: SHIELDING NEUTRONS GAMMAS ; HANDBOOK THEORY

DESC: Cross Sections gamma L1

DESC: Orbital Mechanics L1 NEUTRON AND GAMMA PRODUCTION

DESC: Cross Sections neutron L1

REPN: DASA 1892 5 ; EO 806 65

SUJO: 9-100-000 ; 9-820-000 ; 9-830-000

TITL: WEAPONS RADIATION SHIELDING HANDBOOK, CHAPTER 2, BASIC CONCEPTS OF
RADIATION SHIELDING ANALYSIS (U), 74 P (U)

TREE: 411 ; 412

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DASA 1892 5

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DASA 1892 6

ABS: This Volume (chapter 7 of the handbook) presents a simplified method for designing (or evaluating) shield covers on single compartment underground structures that will protect against the neutrons and initial gamma rays. Emphasis is given to neutrons. The method is limited to surface or near surface bursts, to weapon yields between 1 kiloton and 20 Megatons, and to distances from the burst at which overpressures are between 5 and 100 psi, but no closer than 500 meters.

ADNO: 512544

AUTH: ABBOTT L. S. ; CLAIBORNE H. C. ; CLIFFORD C.E.

CLSS: SRD 1

CORP: OAK RIDGE NATIONAL LABORATORY (OAK RIDGE-TN)

DATE: 7010

DESC: Cross Sections neutron L1 CONCRETE EARTH

DESC: Nuclear Weapon Environment Initial Gamma source strength total intensity L1

DESC: HANDBOOK

DESC: Cross Sections gamma L1 CONCRETE EARTH

DESC: Nuclear Weapon Environment Airblast in tunnels cavities L5 P29

DESC: Nuclear Weapon Environment Prompt Neutron source strength total fluence L1

REPN: DASA 1892 6

SUJO: 1-110-000 ; 1-710-000 ; 2-613-600 ; 9-820-000 ; 9-830-000

TEMP: 75413

TITL: WEAPONS RADIATION SHIELDING HANDBOOK, CHAPTER 7, ENGINEERING METHOD FOR DESIGNING INITIAL RADIATION SHIELDS FOR BLAST HARDENED UNDERGROUND STRUCTURES (U), 127 P, (SRD)

TREE: 411 ; 412

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DASA 1892 6

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created: 12/27/1991 type: REPORT permanent
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INUM: DASA 1900 3

ADNO: 505 378L

AUTH: NATHANS M.W.

CLSS: SRD 1

CONN: DASA 01 68 C 0112

CORP: TRACERLAB/WEST (RICHMOND-CA)

DATE: 6904

DESC: Nuclear Weapon Environment Fallout Particles size distribution L1

DESC: Nuclear Weapon Environment Fallout Particles physical characteristics L1

DESC: Nuclear Weapon Environment Fallout isotope concentrations L1

DESC: Nuclear Weapon Environment radiation decay isotopic half lives L1
DESC: EXPERIMENTAL
REPN: DASA 1900-3 ; TLW 5384
SHOT: BRAVO ; KOON ; JOHNIE BOY ; ZUNI ; LACROSSE
TSHO: SURFACE
SUJO: 2-222-200 ; 2-222-300 ; 2-223-100 ; 2-223-410
TEMP: 67501
TITL: STUDIES OF FALLOUT AND NUCLEAR CLOUDS FROM SURFACE BURSTS, FINAL
REPORT (U), 53 P (SRD)

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DASA 1900 3

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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2019 2
ADNO: 696959
AUTH: BRUES A.M. ; UPTON A.C.
CLSS: U
CONN: DASA 01 67 C 0024
CORP: GENERAL ELECTRIC COMPANY (SANTA BARBARA-CA)
DATE: 6907
DESC: SUMMARY
DESC: Nuclear Weapon Effects on animals ionizing radiation L1
DESC: Nuclear Warfare Postattack Recovery civilians population L1
DESC: Nuclear Weapon Environment Fallout Radioproperties L5 IVY MIKE
DESC: Nuclear Warfare General Nuclear War L1
REPN: DASIAC SR 095 ; DASA 2019 2
SUJO: 2-223-000 ; 3-312-000 ; 3-401-000 ; 3-442-000
TITL: PROCEEDINGS OF THE SECOND INTERDISCIPLINARY CONFERENCE ON SELECTED
EFFECTS OF A GENERAL WAR, VOLUME II, REPORT OF CONFERENCE DISCUSSION
FOR PROCEEDINGS OF CONFERENCE HELD 4-7 OCTOBER 1967, 417 P, (U)

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DASA 2019 2

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created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2048
ADNO: 508902L
CLSS: C 3
CONN: DASA 01 67 C 0009 ; DASA 01 69 C 0164
CORP: KAMAN AVIDYNE (BURLINGTON-MA)
DATE: 7004
DESC: HELICOPTERS ALSO ; HANDBOOK
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
AIRCRAFT CREW
DESC: Nuclear Weapon Effects flight systems airplanes L1 BLAST AND SHOCK

THERMAL X-RAYS GAMMA FALLOUT INTEGRATED EFFECTS

REPN: DASA 2048 ; KA TR 50 A

SUJO: 3-111-000 ; 3-312-100

TEMP: 71555

TITL: HANDBOOK FOR ANALYSIS OF NUCLEAR WEAPON EFFECTS ON AIRCRAFT (U), 694 P., (C)

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DASA 2048

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2051

ADNO: 508 600

AUTH: KALINOWSKI J.J.

CLSS: SRD 1

CONN: DASA 01 67 0123

CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)

DATE: 7002

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L1 TREE XRAY

DESC: Nuclear Weapon Environment X-ray Output L5

DESC: Nuclear Weapon Environment Prompt Neutrons L5

DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L1 HARDENING TECHNIQUES

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1

TREE XRAY

DESC: SUMMARY

DESC: Nuclear Test Simulation Field Programs concepts capability

philosophy L5

DESC: Nuclear Weapon Environment Initial Gamma L5

REPN: DASA 2051

SUJO: 1-100-000 ; 1-600-000 ; 1-700-000 ; 3-221-000 ; 3-222-000 ;

4-170-000 ; 4-810-000

TEMP: 71369

TITL: MANAGEMENT GUIDE TO TRANSIENT-RADIATION EFFECTS ON ELECTRONICS

(TREE) (U), 98 P(SRD)

TREE: 400 ; 120

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DASA 2051

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copy: 1 id: 75017-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2169

ADNO: 848948

AUTH: STEIN J.M.

CLSS: U

CONN: DA 49 146 XZ 462
CORP: GULF GENERAL ATOMIC INCORPORATED (SAN DIEGO-CA)
DATE: 6903
DESC: THEORY
DESC: Nuclear Weapon Phenomenology Fireball Internal Pressure Temperature
Density Particle Velocities
DESC: Nuclear Weapon Phenomenology Fireball Energy Partition Energy
Coupling
REPN: DASA 2169 ; GA 8664
TSHO: LOW-ALT
SUJO: 2-130-000 ; 2-150-000
TITL: RADIATION GROUND COUPLING FROM AN EXPLOSION (U), 69 P (U)

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DASA 2169

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2205
ADNO: 848455L
AUTH: SIMMONS M. ; DONOVAN R.P.
CLSS: U
CONN: DASA 01 68 C 0045
CORP: RESEARCH TRIANGLE INSTITUTE (RESEARCH TRIANGLE PARK-NC)
DATE: 6902
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits
DESC: EXPERIMENTAL
EFFT: X-RAY ; NUCLEAR RADIATION
REPN: DASA 2205 ; EU 368
SUJO: 3-222-000
TITL: LATCHUP IN DIELECTRICALLY ISOLATED INTEGRATED CIRCUITS, FINAL REPORT
(U), 148 P (U)

TREE: 320

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DASA 2205

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copy: 1 id: 75166-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2211
ADNO: 849867
AUTH: RILEY L.A. ; WILSON S.H. JR. ; SOULES G.W. JR.
CLSS: U
CCDE: SPATTER
CONN: DASA 01 67 C 0034
CORP: NORTHROP CORPORATE LABORATORIES (HAWTHORNE-CA)
DATE: 6903
DESC: Radiation Transport x-ray

DESC: Radiation Transport visible L1 A TO D TECHNIQUES
DESC: THEORY CODE
REPN: DASA 2211 ; NCL 68 58 R
SUJO: 9-630-000 ; 9-640-000
TITL: RADIATION TRANSPORT COMPUTER, FINAL REPORT (U), 124 P (U)
TREE: 980

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DASA 2211

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copy: 1 id: 75172-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2236 1
AUTH: SHELTON F.H. ; KEITH J.R.
CLSS: U
CCDE: NHAT
CONN: DASA 01 68 C 0131
CORP: KAMAN NUCLEAR (COLORADO SPRINGS-CO)
DATE: 6901
DESC: Radiation Transport neutron
DESC: Cross Sections neutron L1 O N
DESC: TABULAR CODE
REPN: DASA 2236 1 ; KN 774 69 1 V1
SUJO: 9-650-000 ; 9-820-000
TITL: NEUTRON TRANSPORT IN NON-UNIFORM AIR BY MONTE CARLO CALCULATION;
VOL. 1, (U), 147 P., (U)
TREE: 970

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DASA 2236 1

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copy: 1 id: 75197-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2240
ADNO: 508598L
AUTH: BENGSTON J.
CLSS: SFRD 1
CONN: DASA 01 68 C 0040
CORP: INSTITUTE FOR DEFENSE ANALYSES (ARLINGTON-VA)
DATE: 7003
DESC: TREE BLACKOUT HYDRODYNAMIC MODELS ; THEORY
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry
general descriptions L1 PRECURSOR
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1 NEUTRON
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L5
REPN: P 476 ; DASA 2240

SUJO: 2-311-000 ; 4-140-000 ; 4-170-000
TEMP: 71328
TITL: STUDIES IN HIGH-ALTITUDE NUCLEAR EFFECTS (U), 142 P (SFRD)

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DASA 2240

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copy: 1 id: 75202-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2241 1
ADNO: 849486L
CLSS: U
CONN: DASA 01 68 C 0059
CORP: HUGHES AIRCRAFT COMPANY (FULLERTON-CA)
DATE: 6903
DESC: SIMULATION ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electrical mechanical cables wires
EFFT: TREE
REPN: DASA 2241 1
SUJO: 3-231-000
TITL: STUDY OF COAXIAL CABLES IN THE RADIATION ENVIRONMENT, FINAL REPORT
(U), 46 P (U)
TREE: 390

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DASA 2241 1

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copy: 1 id: 75203-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2241 2
ADNO: 500327L
AUTH: KERRIS K.G. ; BERGGREN C.C. ; CARTER D.B. ; SPEHAR G.G.
CLSS: SRD 1
CONN: DASA 01 68 C 0059
CORP: HUGHES AIRCRAFT COMPANY (FULLERTON-CA)
DATE: 6903
EFFT: TREE
REPN: DASA 2241 2 ; SDB B 91155/10G
SHOT: NEW POINT
TEMP: 63276
TITL: STUDY OF COAXIAL CABLES IN THE RADIATION ENVIRONMENT, SUPPLEMENT,
FINAL REPORT(U), 4 P (SRD)
TREE: 390

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DASA 2241 2

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copy: 1 id: 75204-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DASA 2242
ADNO: 686109
AUTH: KERLEY G.I.
CLSS: U
CONN: DASA 01 68 C 0007
CORP: DEFENSE ATOMIC SUPPORT AGENCY (WASHINGTON-D.C.) ; DASA INFORMATION
AND ANALYSIS CENTER (SANTA BARBARA-CA)
DATE: 6902
DESC: SUMMARY
DESC: test instruments nuclear radiation neutron
DESC: test instruments nuclear radiation gamma
REPN: DASA 2242 ; DASIAC SR 086
SUJO: 4-341-000 ; 4-342-000
TITL: CONCEPTS IN SPECTRAL UNFOLDING (U), 16 P (U)
TREE: 651

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DASA 2242

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copy: 1 id: 75205-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DASA 2258 1
ADNO: 855305
AUTH: FREEMAN B.E. ; HAUSER L.E. ; LATKO R.J. ; PALMER J.T. ; PICKARD S.O.
; SCHAIBLY J.H. ; SIMMONS G.M. ; ZERKLE J.E.
CLSS: U
CCDE: VERA
CONN: DASA 01 68 C 0113
CORP: SYSTEMS SCIENCE AND SOFTWARE INCORPORATED (LA JOLLA-CA)
DATE: 6902
DESC: THEORY
DESC: Radiation Transport
DESC: Fluid Mechanics hydrodynamics
REPN: 3 SCR 67 VOL 1 ; DASA 2258 1
SUJO: 9-410-000 ; 9-600-000
TITL: VERA SYSTEM OF RADIATION-HYDRODYNAMIC CODES, VOLUME I, MATHEMATICAL
ANALYSIS AND CODE APPLICATIONS, FINAL REPORT (U), 180 P (U)

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DASA 2258 1

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copy: 1 id: 75220-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DASA 2258 2

ADNO: 855306
AUTH: FREEMAN B.E. ; HAUSER L.E. ; LATKO R.J. ; PALMER J.T. ; PICKARD S.O.
; SCHAIBLY J.H. ; SIMMONS G.M. ; ZERKLE J.E.
CLSS: U
CCDE: VERA
CONN: DASA 01 68 C 0113
CORP: SYSTEMS SCIENCE AND SOFTWARE INCORPORATED (LA JOLLA-CA)
DATE: 6902
DESC: Fluid Mechanics hydrodynamics
DESC: Radiation Transport
REPN: 3 SCR 67 VOL 2 ; DASA 2258 2
SUJO: 9-410-000 ; 9-600-000
TITL: VERA SYSTEM OF RADIATION-HYDRODYNAMIC CODES, VOLUME II,
DOCUMENTATION OF THE VERA CODE, FINAL REPORT (U), 431 P (U)

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DASA 2258 2

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copy: 1 id: 75221-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2258 3
ADNO: 855307
AUTH: LATKO R.J. ; PALMER J.T. ; PICKARD S.O. ; SCHAIBLY J.H. ; SIMMONS
G.M. ; FREEMAN B.E. ; HAUSER L.E. ; ZERKLE J.E. ; SPILLMAN G.R.
CLSS: U
CCDE: TRAN
CONN: DASA 01 68 C 0113
CORP: SYSTEMS SCIENCE AND SOFTWARE INCORPORATED (LA JOLLA-CA)
DATE: 6902
DESC: Fluid Mechanics hydrodynamics
DESC: THEORY
DESC: Radiation Transport
REPN: 3 SCR 67 VOL 3 ; DASA 2258 3
SUJO: 9-410-000 ; 9-600-000
TITL: VERA SYSTEM OF RADIATION-HYDRODYNAMIC CODES, VOLUME III,
DOCUMENTATION OF THE TRAN CODE, FINAL REPORT (U), 247 P (U)

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DASA 2258 3

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copy: 1 id: 75222-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2258 4
AUTH: FREEMAN B.E. ; SIMMONS G.M. ; LATKO R.J. ; BAILEY L.E.
CLSS: SRD 1
CCDE: VERA; SNPSHT
CONN: DASA 01 68 C 0113
CORP: SYSTEMS SCIENCE AND SOFTWARE (LA JOLLA-CA)

DATE: 6902
DESC: Nuclear Weapon Environment Thermal Output rate L1
DESC: Nuclear Weapon Environment Thermal Output angular distribution L1
DESC: Nuclear weapon test yield L1
DESC: Fluid Mechanics hydrodynamics L1
DESC: THEORY
REPN: 3 SCR 67 4 ; DASA 2258 4
SUJO: 1-230-000 ; 1-240-000 ; 4-835-000 ; 9-410-000
TEMP: 65461
TITL: VERA SYSTEM OF RADIATION-HYDRODYNAMIC CODES, VOLUME IV: VERA
CALCULATIONS OF COUGAR B AND WILDCAT-10 (U), 134 P (SRD)

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DASA 2258 4

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copy: 1 id: 75223-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2263
ADNO: 686075
AUTH: COHEN M.O.
CLSS: U
CCDE: ANTE
CONN: DASA 01 68 C 0115
CORP: MATHEMATICAL APPLICATIONS GROUP INCORPORATED (WHITE PLAINS-NY)
DATE: 6902
DESC: Radiation Transport neutron
REPN: DASA 2263 ; 001475
SUJO: 9-650-000
TITL: ANTE, A FORTRAN COMPUTER CODE FOR THE SOLUTION OF THE ADJOINT
NEUTRON TRANSPORT EQUATION BY THE MONTE CARLO TECHNIQUE (U), 91 P
(U)

TREE: 970

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DASA 2263

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copy: 1 id: 75229-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2279
ADNO: 502604
AUTH: MEYEROTT R.E. ; JOHNSON R.G.
CLSS: SRD 1
CONN: DASA 01 68 C 0058
CORP: LOCKHEED MISSILES AND SPACE COMPANY (PALO ALTO-CA)
DATE: 6902
DESC: THEORY
DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR

DESC: Solid Mechanics
DESC: Nuclear Weapon Environment Ultraviolet Output source strength total
intensity
DESC: Nuclear Weapon Phenomenology High-Altitude induced airglow
fluorescence
REPN: LMSC/B 230960 ; DASA 2279
TSHO: HI-ALT
SOCE: SPARTAN
SUJO: 1-510-000 ; 2-214-000 ; 4-820-600 ; 9-200-000
TEMP: 65273
TITL: STUDY OF ENERGY COUPLING PHENOMENOLOGY IN HIGH-ALTITUDE NUCLEAR
DETONATIONS, AFEASIBILITY STUDY FOR AN EXPERIMENTAL PROGRAM, FINAL
TECHNICAL REPORT (DRAFT)(U), 264 P (SRD)

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DASA 2279

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copy: 1 id: 75240-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2280-01
AUTH: KALAB B.M.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO, CA)
DATE: 6903
DESC: Electromagnetic Theory Applications L5
DESC: THEORY
EMPF: 321
SUJO: 9-300-000
SYMJ: PROCEEDINGS, DASA EMP TECHNICAL CONFERENCE, 1969 (U), MARCH 1969,
DASA 2280
TITL: BROADBAND ANTENNA PARAMETERS# THEORETICAL BASIS FOR MEASURING
COMPLEX IMPEDANCE AND EFFECTIVE HEIGHT BY PULSE TECHNIQUES (U), 10
P, (U)

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DASA 2280-01

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copy: 1 id: 75242-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2290
ADNO: 690101
AUTH: GUBER W. ; KALOS M.H. ; STEINBERG H.A.
CLSS: U
CCDE: PAWN
CONN: DASA 01 68 C 0115
CORP: MATHEMATICAL APPLICATIONS GROUP INCORPORATED (WHITE PLAINS-NY)
DATE: 6903
DESC: Radiation Transport gamma L1

DESC: CODE
REPN: DASA 2290 ; MR 6905
SUJO: 9-620-000
TITL: DESCRIPTION OF THE PAWN SYSTEM FOR THE MONTE CARLO ADJOINT
CALCULATION OF SECONDARY GAMMA DOSE AS A FUNCTION OF TIME, FINAL
REPORT (U), 88 P (U)

TREE: 960

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DASA 2290

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copy: 1 id: 75276-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2291

ADNO: 503072

AUTH: SCHALIT L.M.

CLSS: SRD 1

CCDE: DIAPHANOUS

CONN: DASA 01 68 C 0116

CORP: SYSTEMS SCIENCE AND SOFTWARE (LA JOLLA-CA)

DATE: 6903

DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air

DESC: equation of state heat of vaporization thermal conductivity opacity

DESC: Fluid Mechanics hydrodynamics

DESC: SUMMARY

REPN: 3 SCR 105/69 068 ; DASA 2291

SUJO: 5-200-000 ; 9-410-000 ; 9-710-000

TEMP: 65687

TITL: REVIEW AND CODIFICATION OF THEORETICAL FORMULATIONS OF IONIZED GAS
EQUATIONS OF STATE, IONIZED GAS OPTICAL PROPERTIES, AND SELECTED
HIGH PRESSURE EQUATIONS OF STATE FOR USE IN RADIATION-TRANSPORT AND
HYDRODYNAMICS CODES, FINAL REPORT (U), 113 P (SRD)

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DASA 2291

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copy: 1 id: 75277-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2296

ADNO: 855580

AUTH: YONAS G. ; SPENCE P.

CLSS: U

CONN: DASA 01 68 C 0096

CORP: PHYSICS INTERNATIONAL COMPANY (SAN LEANDRO-CA)

DATE: 6904

DESC: test instruments nuclear radiation dosimeters radiacs L5

DESC: EXPERIMENTAL

DESC: Simulation Facilities Techniques TREE L1

REPN: DASA 2296 ; Pitr 106 1
SUJO: 4-272-000 ; 4-346-000
TITL: DYNAMIC EFFECTS OF HIGH NU/GAMMA BEAM PLASMA INTERACTIONS (U), 63 P
(U)

TREE: 642

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DASA 2296

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copy: 1 id: 75281-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2309

ADNO: 854645

AUTH: MANSON D.J. ; FENNELL J.F.

CLSS: U

CONN: DA 49 146 XZ 494 MODIFICATION 3

CORP: DEFENSE ATOMIC SUPPORT AGENCY (WASHINGTON-DC)

DATE: 6906

DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1

DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping L1

DESC: TRAPPED RADIATION SATELLITE MEASUREMENTS ; SUMMARY

REPN: DASA 2309

SHOT: TEAK ; ORANGE ; Argus 1 ; Argus 2 ; Argus 3

TSHO: HIGH ALTITUDE

SUJO: 2-212-000 ; 2-217-000

TITL: REVIEW OF ARTIFICIAL RADIATION BELTS, EXPLORER 4; UNIDIRECTIONAL
TRAPPED RADIATION INJUN 1, FINAL REPORT (U), 56 P, (U)

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DASA 2309

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DASA 2315

ADNO: 731088

AUTH: GRAYBILL S. ; UGLUM J. ; RIZZO J. ; MCNEILL W. ; CHILDERS K. ; NABLO

S.

CLSS: U

CONN: DA 49 146 XZ 553

CORP: ION PHYSICS CORP (BURLINGTON MASS)

DATE: 6906

DESC: Radiation Transport plasma L1 EMISSION SPECTRA

DESC: ELECTRON BEAM TESTING ; EXPERIMENTAL

REPN: DASA 2315

SUJO: 9-660-000

TITL: STUDY AND DEVELOPMENT OF HIGH INTENSITY STOPPED BEAM PLASMA SOURCES
(U), 87 P., (U)

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DASA 2315

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copy: 1 id: 75303-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2331

ADNO: 693618

AUTH: REYNOLDS G.M.

CLSS: U

CCDE: 1DF ; GGC ; GASORC ; GAMLEG

CONN: DASA 01 68 C 0088

CORP: GULF GENERAL ATOMIC INC. (SAN DIEGO-CA)

DATE: 6905

DESC: Radiation Transport gamma

DESC: THEORY EXPERIMENTAL

REPN: GA 9429 ; DASA 2331

SUJO: 9-620-000

TITL: GAMMA-RAY TRANSPORT IN LIQUID NITROGEN , FINAL REPORT (U), 70 P (U)

TREE: 960

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DASA 2331

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copy: 1 id: 75319-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2343 1

ADNO: 860197L

AUTH: AMES M.R. ; GODSIN W. ; MUHL W. ; PEARSON T. ; PEAT D.

CLSS: U

CONN: DASA 01 68 C 0087

CORP: GULF GENERAL ATOMIC INC (SAN DIEGO-CA)

DATE: 6909

DESC: Simulation Facilities Techniques x-ray effects L1

DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic

sources L1

DESC: THEORY EXPERIMENTAL

REPN: DASA 2343 1 ; GA 9369 PT1

SUJO: 4-231-000 ; 4-241-000

TITL: SIMULATION TECHNIQUES FOR COMPOSITE SHIELD TESTING, PART I (U), 69
P, (U)

TREE: 642

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DASA 2343 1

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copy: 1 id: 75329-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
.endblock

INUM: DASA 2343 2
ADNO: 860198L
AUTH: ROTHSTEIN M.
CLSS: U
CONN: DASA 01 68 C 0087
CORP: GULF GENERAL ATOMIC (SAN DIEGO-CA)
DATE: 6909
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources L1
DESC: EXPERIMENTAL THEORY
DESC: Simulation Facilities Techniques x-ray effects L1
REPN: DASA 2343 2 ; GA 9369 PT2
SUJO: 4-231-000 ; 4-241-000
TITL: SIMULATION TECHNIQUES FOR COMPOSITE SHIELD TESTING, PART 2, SHORT
PULSE WIDTH (1 TO 2 MSEC) ENERGY RELEASES AND ENERGY PROFILING IN
URANIUM LOADED TEST SPECIMENS USING TRIGA (U), 87 P, (U)
TREE: 642

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DASA 2343 2

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copy: 1 id: 75330-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: DASA 2351
AUTH: HAMLIN D.A. ; LOWEN R.W. ; SOWLE D.H. ; VIK R.C.
CLSS: SRD 1 CNWDI
CCDE: SIMON ; DAC ; DEPOT ; GRAMP ; AJAX
CONN: DA 49 146 XZ 443
CORP: CONVAIR DIVISION OF GENERAL DYNAMICS (SAN DIEGO-CA)
DATE: 6907
DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry x-ray
L1
DESC: Fluid Mechanics hydrodynamics L5
DESC: Nuclear Weapon Phenomenology Fireball Energy Partition Energy
Coupling L1
DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L1
DESC: Radiation Transport x-ray L1
DESC: THEORY
REPN: DASA 2351 ; GDC DBE 69 011 FINAL REPORT
TSHO: MULTI
SUJO: 2-110-000 ; 2-150-000 ; 2-312-400 ; 9-410-000 ; 9-640-000
TEMP: 6777
TITL: THEORETICAL STUDY OF MULTIBURST PHENOMENA, FINAL REPORT (U), 172 P,
(SRD CNWDI)

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DASA 2351

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copy: 1 id: 75338-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DASA 2358
ADNO: 863057
AUTH: LEADON R.E. ; VAUGHN M.L.
CLSS: U
CCDE: PND ; PNMN
CONN: DASA 01 68 C 0123
CORP: GULF GENERAL ATOMIC INCORPORATED (SAN DIEGO-CA)
DATE: 6906
DESC: PULSED RADIATION ; CODE DATA
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 ALLOY DIODE ALLOY TRANSISTOR ZENER
DIODES PHOTOCURRENT DECAY BULKTUNNELING LATCH UP
REPN: DASA 2358 ; GA 9397
SUJO: 3-221-000
TITL: SHORT-PULSED RADIATION EFFECTS ON DYNAMIC ELECTRONIC COMPONENTS,
FINAL REPORT (U 184 P (U)
TREE: 310

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DASA 2358

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copy: 1 id: 75350-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: DASA 2362 2
ADNO: 506085
AUTH: DEDRICK K.G. ; JOHNSON G.L.
CLSS: SRD 1
CONN: DASA 01 68 C 0104
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK-CA)
DATE: 6909
DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L5
REPN: DASA 2362 2
TSHO: HI-ALT
SUJO: 1-610-000
TEMP: 67881
TITL: RADIATION ENVIRONMENT FOR A SYNCHRONOUS SATELLITE FOLLOWING A
NUCLEAR EXPLOSION, FINAL REPORT, PHASE 1 (U), 20 P, (SRD)

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DASA 2362 2

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copy: 1 id: 75355-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DASA 2371
AUTH: SHELTON F.H. ; KEITH J.R.
CLSS: CNWDI-SRD
CONN: DASA 01 68 C 0131
CORP: KAMAN SCIENCES CORPORATION (COLORADO SPRINGS-CO)
DATE: 6907
DESC: SPARTAN TEST READINESS [REDACTED]
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
DESC: Nuclear Warfare Strategic operations scenarios battlefield
environment L1
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L1
DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L1
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1
DESC: Nuclear Weapon Environment Initial Gamma energy spectrum L1
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1
REPN: DASA 2371 ; KN 774 69 4 ; KN 17963
TSHO: HI-ALT
SUJO: 1-110-000 ; 1-120-000 ; 1-610-000 ; 1-620-000 ; 1-720-000 ;
1-740-000 ; 3-421-200
TEMP: 69546
TITL: INITIAL RADIATION ENVIRONMENTS PRODUCED BY SPARTAN EVENTS AND SOME
OF THEIR AEROSPACE SYSTEMS EFFECTS (U), 44 P (CNWDI-SRD)
TREE: 900

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DASA 2371

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copy: 1 id: 75363-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DASA 2372
AUTH: SHELTON F.H. ; KEITH J.R.
CLSS: CNWDI-SRD
CONN: DASA 01 68 C 0131
CORP: KAMAN SCIENCES CORPORATION (COLORADO SPRINGS-CO)
DATE: 6907
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L1
DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L1
DESC: Nuclear Warfare Strategic operations scenarios battlefield
environment L1
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1
DESC: SPRINT TEST READINESS PROGRAM W 66
REPN: DASA 2372 ; KN 774 69 5 ; KN 17964
TSHO: HI-ALT
SUJO: 1-110-000 ; 1-120-000 ; 1-610-000 ; 1-620-000 ; 1-740-000 ;
3-421-200

TEMP: 69547
TITL: BLAST, THERMAL, AND NUCLEAR RADIATION ENVIRONMENTS PRODUCED BY
SPRINT BURSTS (U), 50 P, (CNWDI-SRD)

TREE: 900

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DASA 2372

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copy: 1 id: 75364-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DASA 2378

ADNO: 702524

AUTH: BOSWELL R.S. ; FEDER B.H. ; SCHAEFLEIN J.W. ; SONDHAUS C.A.

CLSS: U

CONN: DASA 01-67-C-0136

CORP: CALIFORNIA UNIVERSITY (IRVINE CA)

DATE: 6908

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1

DESC: EXPERIMENTAL

REPN: DASA 2378

SUJO: 3-312-100

TITL: NEUROPHYSIOLOGICAL AND BEHAVIORAL EFFECTS OF INCIDENTAL IRRADIATION
OF NORMAL HUMANS (U), CA. 129 P., (U)

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DASA 2378

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2382

ADNO: 507 152

AUTH: KEITH J.R. ; SHELTON F.H.

CLSS: SRD

CONN: DASA 01 68 C 0131

CORP: KAMAN SCIENCES CORPORATION (COLORADO SPRINGS-CO)

DATE: 6910

DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1

DESC: Nuclear Weapon Environment Initial Gamma energy spectrum L1

DESC: SPARTAN ; THEORY TABULAR

DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1

DESC: Nuclear Warfare Strategic operations scenarios battlefield
environment L1

DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L1

DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1

DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1

REPN: KN 774 69 4 A ; DASA 2382
TSHO: HI-ALT
SUJO: 1-110-000 ; 1-120-000 ; 1-610-000 ; 1-620-000 ; 1-710-000 ;
1-720-000 ; 3-421-200
TEMP: 69568
TTTL: INITIAL RADIATION ENVIRONMENTS PRODUCED BY AN ADVANCED SPARTAN AND
SOME EFFECTS ON AEROSPACE SYSTEMS (U), REPORT, 28 P, (SRD)
TREE: 900

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DASA 2382

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copy: 1 id: 75372-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DASA 2384
ADNO: 699 945
AUTH: ERIKSSON B. ; HUI S. ; KALOS M. ; SPIELBERG D. ; STEINBERG H.
CLSS: U
CCDE: ZZ
CONN: DASA 01 69 C 0084
CORP: DOUGLAS AIRCRAFT COMPANY, INCORPORATED (SANTA MONICA-CA)
DATE: 7001
DESC: Radiation Transport L1
DESC: Fluid Mechanics hydrodynamics L5
DESC: THEORY
REPN: MR 6909 ; DASA 2384
SUJO: 9-410-000 ; 9-600-000
TTTL: AUTOMATIC COMPUTATION OF IMPORTANCE SAMPLING FUNCTIONS FOR MONTE
CARLO TRANSPORT CODES PHASE I (U), FINAL REPORT, 52 P, (U)

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DASA 2384

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copy: 1 id: 75375-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2388
ADNO: 508580
AUTH: STEVENS C.A.
CLSS: SRD 1
CONN: DASA 01 69 C 0167
CORP: SCIENCE APPLICATIONS INCORPORATED (LA JOLLA-CA)
DATE: 7004
DESC: Radiation Transport neutron L1 DIRT
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L9 P5
DEV-31
DESC: Nuclear Weapon Phenomenology Fireball Energy Partition Energy
Coupling L1 ENERGY PARTITION INTO GROUND
DESC: Nuclear Weapon Environment Prompt Neutron source strength total

fluence L9 P5 DEV-31

DESC: THEORY
REPN: DASA 2388 ; SAI 69 201
SUJO: 1-110-000 ; 1-120-000 ; 2-150-000 ; 9-650-000
TEMP: 71345
TITL: GROUND HEATING BY A NEUTRON SOURCE, FINAL REPORT (U), 42 P, (SRD)

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DASA 2388

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copy: 1 id: 75377-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DASA 2392 1
ADNO: 703293
AUTH: POMRANING G.C.
CLSS: U
CONN: DASA 01 69 C 0012
CORP: GULF GENERAL ATOMIC, INCORPORATED (SAN DIEGO-CA)
DATE: 6909
REPN: DASA 2392 1 ; GA 9530 V1
TITL: THEORETICAL AND COMPUTATIONAL RADIATION HYDRODYNAMICS, VOLUME 1,
RADIATIONHYDRODYNAMICS, THEORETICAL CONSIDERATIONS (U), CIRCA 200 P
(U)

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DASA 2392 1

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copy: 1 id: 75382-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2392 2
ADNO: 703664
AUTH: POMRANING G.C. ; WILSON H. ; LINDLEY W.
CLSS: U
CONN: DASA 01 69 C 0012
CORP: GULF GENERAL ATOMIC INCORPORATED (SAN DIEGO-CA)
DATE: 6909
DESC: Fluid Mechanics hydrodynamics L1
DESC: Radiation Transport x-ray L1
DESC: THEORY
REPN: GA 9530 ; DASA 2392 2
SUJO: 9-410-000 ; 9-640-000
TITL: THEORETICAL AND COMPUTATION RADIATION HYDRODYNAMICS, VOLUME II, THE
DRAD CODE COMPTON SCATTERING (U), CIRCA 245 P (U)

TREE: 980

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DASA 2392 2

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copy: 1 id: 75383-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DASA 2392 3
CLSS: SRD 1 CNWDI
CCDE: DRAD
CONN: DASA 01 69 C 0012
CORP: GULF GENERAL ATOMIC INCORPORATED (SAN DIEGO-CA)
DATE: 6909
DESC: DEV-17 DEV-68 DEV-80 EARLY TIME ; THEORY
DESC: Nuclear weapon test device physical operation construction geometry
materials components L5
DESC: Nuclear weapon test burn performance L1
REPN: DASA 2392 3 ; GA 9530 VOL 3
SUJO: 4-836-000 ; 4-837-000
TEMP: 69959
TITL: THEORETICAL AND COMPUTATIONAL RADIATION HYDRODYNAMICS, VOLUME 3,
EARLY TIME CALCULATION OF THREE NUCLEAR DIVICES (U), 25 P (SRD
CNWDI)

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DASA 2392 3

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copy: 1 id: 75384-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: DASA 2392 4
ADNO: 507 842
AUTH: POMRANING G.C.
CLSS: SRD 1
CONN: DASA 01 69 C 0012
CORP: GULF GENERAL ATOMIC INCORPORATED (SAN DIEGO-CA)
DATE: 6909
DESC: Radiation Transport L1
DESC: THEORY
DESC: Fluid Mechanics hydrodynamics L1 RADIATION
REPN: GA 9530 ; DASA 2392 4
SUJO: 9-410-000 ; 9-600-000
TEMP: 69945
TITL: THEORETICAL AND COMPUTATIONAL RADIATION HYDRODYNAMICS, VOLUME 4,
TWO-DEMENTIONAL RADIATION-HYDRODYNAMICS USING MONTE CARLO METHODS
(U), 111 P (SRD)

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DASA 2392 4

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copy: 1 id: 75385-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DASA 2396
ADNO: 700 920
AUTH: COHEN M.O.
CLSS: U
CCDE: ANTE 2
CONN: DASA 01 68 C 0115
CORP: MATHEMATICAL APPLICATIONS GROUP (WHITE PLAINS-NY)
DATE: 7001
DESC: THEORY
DESC: Radiation Transport neutron L1
REPN: MR 6910 ; DASA 2396
SUJO: 9-650-000
TITL: ANTE 2-A FORTRAN COMPUTER CODE FOR THE SOLUTION OF THE ADJOINT
NEUTRON TRANSPORT EQUATION BY THE MONTE CARLO TECHNIQUE (U), FINAL
REPORT, 165 P, (U)

TREE: 970

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DASA 2396

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copy: 1 id: 75390-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DASA 2401 1
ADNO: 711839
AUTH: HARRIS L. JR. ; KENDRICK H. ; NALIBOFF Y.D. ; SPERLING S.M.
CLSS: U
CCDE: TRIPAC
CONN: DASA 01 68 C 0097
CORP: GULF GENERAL ATOMIC INCORPORATED (SAN DIEGO-CA)
DATE: 6911
DESC: Cross Sections neutron L1
DESC: NEUTRON GAMMA CONCRETE ; EXPERIMENTAL CODE
DESC: Nuclear Test Simulation Field Programs experiment design neutron
experiments L1
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1

DESC: Radiation Transport gamma L1

DESC: Nuclear Weapon Effects materials concrete L1 SHIELD

DESC: Cross Sections gamma L1

DESC: Radiation Transport neutron L1

REPN: DASA 2401 ; GA 9751 V1

SUJO: 3-247-000 ; 4-140-000 ; 4-820-300 ; 9-620-000 ; 9-650-000 ;
9-820-000 ; 9-830-000

TITL: TIME-DEPENDENT FAST NEUTRON AND SECONDARY GAMMA RAY SPECTRUM
MEASUREMENTS IN CONCRETE (U), 236 P (U)

TREE: 411 ; 412

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DASA 2401 1

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copy: 1 id: 75396-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: DASA 2401 2
ADNO: 711840
AUTH: BEYSTER J.R. ; HARRIS L. JR. ; KENDRICK H. ; NALIBOFF Y.D.
CLSS: U
CCDE: TRIPAN ; FERDOR ; EDIDAT ; HECTO
CONN: DASA 01 68 C 0097
CORP: GULF GENERAL ATOMIC (SAN DIEGO-CA)
DATE: 6911
DESC: Radiation Transport neutron L1
DESC: Radiation Transport gamma L1
DESC: NEUTRON GAMMA ; CODE TABULAR
REPN: DASA 2401 2 ; GA 9751 V2
SUJO: 9-620-000 ; 9-650-000
TITL: TIME-DEPENDENT FAST NEUTRON AND SECONDARY GAMMA RAY SPECTRUM
MEASUREMENTS IN CONCRETE (U), CIRCA 500 P (U)
TREE: 960 ; 970

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DASA 2401 2

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copy: 1 id: 75397-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DASA 2408
ADNO: 507 215
AUTH: KEITH J.R. ; SHELTON F.H.
CLSS: SRD
CONN: DASA 01 68 C 0131
CORP: KAMAN SCIENCES CORPORATION (COLORADO SPRINGS-CO)
DATE: 6912
DESC: WILDCAT TEST READINESS PROGRAM
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
REPN: KN 774 69 7 ; DASA 2408
TSHO: HI-ALT
SUJO: 1-110-000 ; 1-620-000 ; 1-710-000
TEMP: 69592
TITL: SOME RADIATION ENVIRONMENTS PRODUCED BY A WILDCAT NUCLEAR WEAPON
DETONATED AT HIGH ALTITUDE (U), INTERIM REPORT, 18 P, (SRD)
TREE: 900

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DASA 2408

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copy: 1 id: 75404-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: DASA 2410
ADNO: 508640
AUTH: BRUECKNER K.A. ; BRYSK H. ; DINGLER J.
CLSS: C
CONN: DASA 01 69 C 0110
CORP: KMS INDUSTRIES, INCORPORATED (SAN DIEGO-CA)
DATE: 6911
DESC: Nuclear Weapon Environment Induced Synchrotron Noise L1
DESC: THEORY
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping L1
REPN: KMSTC DS 710 ; DASA 2410
SUJO: 2-217-000 ; 2-420-000
TEMP: 71370
TITL: STUDY OF SYNCHROTRON RADIATION FROM FISSION ELECTRONS, FINAL REPORT
(U), CIRCA1 P (S)

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DASA 2410

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copy: 1 id: 75406-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: DASA 2420 1
ADNO: 705513
AUTH: PALMER J.T. ; FREEMAN B.E. ; SCHLAUG R.N.
CLSS: U
CCDE: VERA ; TRAN ; IMTRAN ; SNPSHT ; PIPES
CONN: DASA 01 69 C 0078
CORP: SYSTEMS SCIENCE AND SOFTWARE, INC (LA JOLLA-CA)
DATE: 6912
DESC: Radiation Transport L1
DESC: CODE
REPN: DASA 2420 1 ; 3SCR 174 VOLUME 1
SUJO: 9-600-000
TITL: MODIFICATIONS AND APPLICATIONS OF THE VERA SYSTEM OF CODES, VOL I,
MODIFICATION OF THE CODES (U), 171 P, (U)

TREE: 980

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DASA 2420 1

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copy: 1 id: 75415-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: DASA 2421
ADNO: 705150

AUTH: ALLEN R.C. ; SHAMPINE L.F. ; WING G.M.
CLSS: U
CONN: DASA 01-69-C-0119
CORP: NEW MEXICO UNIVERSITY (ALBUQUERQUE NM)
DATE: 7004
DESC: SPHERICAL GEOMETRY
DESC: Radiation Transport L1
REPN: DASA 2421
SUJO: 9-600-000
TITL: NUMERICAL STUDY OF TRANSPORT PHENOMENA IN SPHERICAL GEOMETRY BY THE
METHOD OF INVARIANT IMBEDDING (U), CA. 87 P., (U)

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DASA 2421

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copy: 1 id: 75417-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2426
ADNO: 708032
AUTH: YONAS G. ; SPENCE P.W. ; ECKER B.M. ; RANDER J.S.
CLSS: U
CONN: DASA 01 68 C 0096
CORP: PHYSICS INTERNATIONAL COMPANY (SAN LEANDRO-CA)
DATE: 6908
DESC: Radiation Transport L1 ELECTRONS AL
DESC: General Atmospheric Properties L9 GAS BRAAKDOWN AIR ARGON HELIUM
P14-16

DESC: SIMULATION (ELECTRON BEAM) X RAY ; EXPERIMENTAL
DESC: Simulation Facilities Techniques x-ray effects L1 ELECTRON BEAM
REPN: DASA 2426 ; PIFR 106 2
SUJO: 4-231-000 ; 5-100-000 ; 9-600-000
TITL: DYNAMIC EFFECTS OF HIGH NU/GAMMA BEAM PLASMA INTERACTIONS, FINAL
REPORT (U), 91 P, (U)

TREE: 642

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DASA 2426

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copy: 1 id: 75421-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DASA 2428
ADNO: 714490
AUTH: SAENGER E.L. ; SILBERSTEIN E.B. ; HORWITZ H.
CLSS: U
CONN: DA 40 146 XZ 315
CORP: UNIVERSITY OF CINCINNATI COLLEGE OF MEDICINE (CINCINNATI-OH)
DATE: 7010
DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
SIMULATION
REPN: DASA 2428
SUJO: 3-312-100
TITL: RADIATION EFFECTS IN MAN: MANIFESTATIONS AND THERAPEUTIC EFFORTS
(U), 43 P, (U)

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DASA 2428

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copy: 1 id: 75423-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DASA 2435
ADNO: 869807L
AUTH: CLADIS J.B.
CLSS: U
CONN: DA 49 146 XZ 570
CORP: LOCKHEED RESEARCH LABORATORY (PALO ALTO-CA)
DATE: 7004
DESC: TRAPPED RADIATION ; THEORY
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L5
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L5
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping L1
DIFFUSION EQNS PITCH AND RADIAL ANGLES GROUND OBSERVATIONS
REPN: DASA 2435
SUJO: 2-212-000 ; 2-213-000 ; 2-217-000
TITL: TRAPPED RADIATION INVESTIGATIONS; DIFFUSION AND MODULATION OF
GEOMAGNETICALLY TRAPPED PARTICLES, ANNUAL REPORT (U), 60 P (U)

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DASA 2435

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copy: 1 id: 75428-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2444
ADNO: 868755L
AUTH: JAMES R.H.
CLSS: U
CONN: DASA 01 67 C 0086 003
CORP: UNIVAC (ST PAUL-MN)
DATE: 7002
DESC: NO ENTRY
DESC: test instruments test hardware velocity measurement L1
REPN: DASA 2444
SUJO: 4-315-000
TITL: DESIGN AND DEVELOPMENT OF EQUIPMENT USED FOR THE RECORDING AND

RETRIEVAL OF TRANSIENT ELECTRICAL SIGNALS, RADIATION HARDENED
ELECTRONICS FOR A THIN FILM RECORDER (U), 36 P (U)

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DASA 2444

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copy: 1 id: 75437-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DASA 2445

ADNO: 508594

AUTH: RUBIN S. ; ARON W.A.

CLSS: C

CONN: DASA 01 67 C 0079

CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK-CA)

DATE: 7001

DESC: THEORY

DESC: test instruments nuclear radiation L1

REPN: DASA 2445 ; PHU 6591

SUJO: 4-340-000

TEMP: 71358

TITL: TIME DEPENDENT ANALYSIS OF RADIATION PULSE DATA (U), 32 P, (C)

TREE: 650

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DASA 2445

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DASA 2455 3-331

AUTH: BRUECKNER K.A.

CLSS: S 1

CORP: KMS TECHNOLOGY CENTER

DATE: 7002

DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1

DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1

DESC: THEORY

DESC: Nuclear Weapon Environment Induced Synchrotron Noise L1

TSHO: HI-ALT

SUJO: 2-211-000 ; 2-212-000 ; 2-420-000

SYMJ: HIGH ALTITUDE NUCLEAR EFFECTS SYMPOSIUM, VOL. 3; DASA 2455 3

TITL: NOISE INTERFERENCE DUE TO SYNCHROTRON RADIATION (U), 30 P., (S)

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DASA 2455 3-331

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copy: 1 id: 72977-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: DASA 2458 1
ADNO: 517729
AUTH: VULLIET W.G. ; DELMER T.N. ; WOOD A.J.
CLSS: SRD 1
CCDE: DRAD
CONN: DASA 01 69 C 0050
CORP: GULF ENERGY + ENVIRONMENTAL SYSTEMS CO (SAN DIEGO CA)
DATE: 7002
DESC: Radiation Transport x-ray L1
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1
DESC: CODE THEORY
REPN: GA 9547 ; DASA 2458 1
SUJO: 1-620-000 ; 9-640-000
TEMP: 81035
TITL: NON-LTE RADIATIVE TRANSPORT, VOL. 1-GENERAL CONSIDERATIONS (U), 327
P., (SRD)
TREE: 930 ; 980

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DASA 2458 1

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copy: 1 id: 75452-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DASA 2460
ABS: Following shock-avoidance training on color and auditory discrimination problems, 12 rhesus monkeys were exposed to either 1500 or 6000 rads of pulsed, neutron-gamma radiation. Testing began one hour after irradiation. All monkeys exhibited performance decrement in the form of generalized incapacitation shortly before death, which occurred earlier for the 6000-rad animals. Prior to onset of the moribund state, however, no significant changes in performance were observed, although marked fluctuations in individual performances were evident. Of the response measures used, response latency underwent more change following irradiation than discrimination accuracy.
ADNO: 709971
AUTH: BOGO V. ; HUTTON R.A. ; BRUNER A.
CLSS: U
CONN: DA 49 146 XZ 359
CORP: LOVELACE FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH (ALBUQUERQUE-NM)
DATE: 7003
DESC: Nuclear Weapon Effects missile systems strategic L1 MONKEYS
AUDIO-VISUAL SUPRALETHAL DOSE
DESC: NEUTRON GAMMA ; EXPERIMENTAL
REPN: DASA 2460
SUJO: 3-112-100

TITL: RADIATION EFFECTS ON AUDITORY AND VISUAL DISCRIMINATION TASKS IN
MONKEYS, TECHNICAL PROGRESS REPORT (U), 21 P, (U)

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DASA 2460

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copy: 1 id: 75454-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2477

ADNO: 709118

AUTH: GRAYBILL S.E. ; RIZZO J. ; UGLUM J. ; MCNEIL W.H.

CLSS: U

CONN: DA 49 146 XZ 553

CORP: ION PHYSICS CORPORATION (BURLINGTON-MA)

DATE: 7006

DESC: DATA SUMMARY

DESC: Directed Energy Weapons Electron Beams Technology Propagation L1

DESC: Simulation Facilities Techniques TREE L1 E-BEAM DIAGNOSTICS E-BEAM
PROPGAGATION BEAM ENERGY TRANSPORT LASER INTERFEROMETRY ION
ACCELERATORS BEAM PROPAGATION THEORY

DESC: Radiation Transport L1

REPN: DASA 2477

SUJO: 3-621-300 ; 4-272-000 ; 9-600-000

TITL: DIAGNOSTICS AND APPLICATIONS OF PULSED SELF-FOCUSED RELATIVISTIC
ELECTRON BEAMS, FINAL REPORT (U), 129 P (U)

TREE: 642 ; 654

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DASA 2477

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copy: 1 id: 75469-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2484

AUTH: ALLEN R.T.

CLSS: SRD 1 CNWDI

CONN: DASA 01 68 C 0141

CORP: SYSTEMS SCIENCE AND SOFTWARE (LA JOLLA-CA)

DATE: 7004

DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L9 P11 DEV
31

DESC: Nuclear Weapon Environment X-ray Output energy spectrum L9 P3 DEV 31

DESC: THEORY

DESC: Nuclear Weapon Environment Ground Shock impact pressure stress L1
STRESS

DESC: Nuclear Weapon Environment Ground Shock heating thermoluminescence
transitions L1 ENERGY COUPLING DEV 31 NEUTRON XRAY

DESC: Cross Sections x-ray L9 P15 ALLUVIUM AIR

DESC: Radiation Transport x-ray L1 ENERGY DEPOSITION ALLUVIUM DEV 31

REPN: DASA 2484
SUJO: 1-120-000 ; 1-620-000 ; 2-623-000 ; 2-629-000 ; 9-640-000 ;
9-840-000
TEMP: 73152
TITL: ENERGY COUPLING FOR MACE, TOPICAL REPORT (U), 42 P, (SRD CNWDI)

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DASA 2484

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copy: 1 id: 75473-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DASA 2509
ADNO: 510430
AUTH: LUEBKE E.A.
CLSS: SRD 1
CCDE: WOE
CONN: DASA 01 69 C 0132
CORP: GENERAL ELECTRIC/TEMPO (SANTA BARBARA-CA)
DATE: 7008
DESC: FIREBALL RADIATION ELECTRON INTERACTIONS ; THEORY
DESC: Nuclear Weapon Environment Infrared Output rate L1 NEAR 1R LWIR
DESC: Nuclear Weapon Environment Visible Output rate L1 FIREBALL
DESC: Nuclear Weapon Environment Ultraviolet Output rate L1 NEAR UV FAR UV
REPN: DASA 2509 ; 70 TMP 23
SUJO: 1-340-000 ; 1-440-000 ; 1-540-000
TEMP: 73131
TITL: OPTICAL RADIATION FROM NUCLEAR EXPLOSIONS (U), 127 P (SRD)

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DASA 2509

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2533
ADNO: 877794
AUTH: RUBIN S. ; ARON W.A.
CLSS: U
CCDE: TARP (RADIATION DATA ANALYSIS) SRI
CONN: DASA 01 67 C 0079
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK, CA.)
DATE: 7006
DESC: THEORY CODE
DESC: test instruments nuclear radiation L1
REPN: PHU 6591 ; DASA 2533
SUJO: 4-340-000
TITL: TIME-DEPENDENT ANALYSIS OF RADIATION PULSE DATA (U), 48 P., (U)
TREE: 650

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DASA 2533

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2541

ADNO: 511549

AUTH: MCSWAIN J.M.

CLSS: SRD 1

CONN: DASA 01 70 C 0035

CORP: GENERAL ELECTRIC COMPANY/TEMPO (SANTA BARBARA-CA)

DATE: 7009

DESC: Nuclear Weapon Effects ordnance explosives L1

DESC: X RAY NUCLEAR RADIATION ; SURVEY EXPERIMENTAL

DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses L1

DESC: Nuclear Weapon Effects ordnance propellants solid L1

REPN: DASIAC SR 089 ; DASA 2541

SHOT: SMALL BOY ; BACKSWING ; ALVA ; TEE ; DILUTED WATERS ; PIN STRIPE ;
NATIVE MIST ; NEW POINT ; UMBER ; MIDI MIST ; MILK SHAKE ; HUDSON
SEAL ; SUNBEAM (SERIES) ; NIBLICK ; WISHBONE ; SILVER BELL ;
FLINTLOCK ; MINUTE GUN ; MILD WIND

TSHO: SURFACE ; UG CONTAINED

SUJO: 3-162-000 ; 3-163-000 ; 3-164-000

TEMP: 81825

TITL: SUMMARY OF NUCLEAR WEAPONS EFFECTS EXPERIMENTS ON PROPELLANTS AND

TREE: 394

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DASA 2541

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2542

ADNO: 714012

AUTH: ALBERT D.J.

CLSS: U

CONN: DASA 01 68 C 0161

CORP: SYSTEMS SCIENCE AND SOFTWARE (LA JOLLA CA)

DATE: 7007

DESC: EXPERIMENTAL SIMULATION

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 NUCLEAR RADIATION

REPN: 3SR 371 ; DASA 2542

SUJO: 3-221-000

TITL: WAFER AND DIFFUSION LOT DEPENDENCE OF SURFACE EFFECTS RESULTING FROM
IONIZING RADIATION (U), 51 P., (U)

TREE: 610 ; 310

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DASA 2542

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2546

ADNO: 875288

AUTH: LEADON R.E. ; WARD P.R. ; COLWELL J.F.

CLSS: U

CCDE: PN

CONN: DASA 01 69 C 0113

CORP: GULF GENERAL ATOMIC INCORPORATED (SAN DIEGO-CA)

DATE: 7007

DESC: THEORY CODE

DESC: Nuclear Weapon Effects electronic pieceparts solar cells L1 TREE

DESC: Nuclear Weapon Effects electronic pieceparts L1 TREE

REPN: DASA 2546 ; GA 9775

SUJO: 3-220-000 ; 3-223-000

TITL: RADIATION EFFECTS ON DYNAMIC ELECTRONIC COMPONENTS, FINAL REPORT

(U), 114 P, (U)

TREE: 310 ; 362

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DASA 2546

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2556

ADNO: 713485

AUTH: HUI S. ; STEINBERG H. ; KALOS M.H. ; TROUBETZKOY E.

CLSS: U

CCDE: XPLASMA

CONN: DASA 01 69 C 0150

CORP: MATHEMATICAL APPLICATIONS GROUP INC (WHITE PLAINS-NY)

DATE: 7010

DESC: Radiation Transport x-ray L1

DESC: CODE THEORY TABULAR

REPN: DASA 2556 ; MR 7006

SUJO: 9-640-000

TITL: PENETRATION OF PHOTONS THROUGH A HOT ELECTRON GAS, FINAL REPORT (U),

37 P, (U)

TREE: 980

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DASA 2556

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copy: 1 id: 75548-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: DASA 2571
ADNO: 716801
AUTH: HARRIS R.J. ; NOWAK M. J. ; LONERGAN J. A. ; WONDRA J. P.
CLSS: U
CONN: DASA 01 69 C 0038
CORP: GULF ENERGY AND ENVIRONMENTAL SYSTEMS INC (SAN DIEGO-CA)
DATE: 7006
DESC: test instruments x-ray effects L1
DESC: EXPERIMENTAL TABULAR THEORY
DESC: Radiation Transport x-ray L1
REPN: DASA 2571 ; GA 10165
SUJO: 4-330-000 ; 9-640-000
TITL: ATMOSPHERIC TRANSPORT OF X RAYS, FINAL REPORT (U), 164 P, (U)
TREE: 980

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DASA 2571

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DASA 2572
ADNO: 715476
AUTH: LATKO R.J. ; POMRANING G.C.
CLSS: U
CONN: DASA 01 70 C 0028
CORP: SCIENCE APPLICATIONS INC (LA JOLLA-CA)
DATE: 7011
DESC: Radiation Transport gamma L1
DESC: Radiation Transport x-ray L1
DESC: THEORY
REPN: SAI 70 113 ; DASA 2572
SUJO: 9-620-000 ; 9-640-000
TITL: MULTIFREQUENCY AND MULTIDIMENSIONAL ASPECTS OF X-RAY TRANSPORT (U),
138 P (U)
TREE: 980

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DASA 2572

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DASA 2573
ADNO: 715612
AUTH: FRANK A.L. ; BENTON E.V.
CLSS: U

CONN: DASA 01 70 C 0016
CORP: UNIVERSITY OF SAN FRANCISCO (SAN FRANCISCO-CA)
DATE: 7011
DESC: test instruments nuclear radiation neutron L1
DESC: THEORY
REPN: DASA 2573
SUJO: 4-342-000
TITL: NEUTRON AND GAMMA-RAY MEASUREMENTS WITH NUCLEAR TRACK DETECTORS (U),
53 P (U)
TREE: 651 ; 652

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DASA 2573

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2583
ADNO: 716453
AUTH: STEINBERG H. A. ; KALOS M.H. ; TROUBETZKOY E.
CLSS: U
CONN: DASA 01 70 C 0033 ; DASA 2583
CORP: MATHEMATICAL APPLICATIONS GROUP, INC (WHITE PLAINS-NY)
DATE: 7012
DESC: Radiation Transport neutron L1
DESC: Radiation Transport gamma L1
DESC: THEORY
REPN: MR 7013 ; DASA 2583
SUJO: 9-620-000 ; 9-650-000
TITL: AUTOMATIC COMPUTATION OF IMPORTANCE SAMPLING FUNCTIONS FOR MONTE
CARLO TRANSPORT CODES, PHASE II, FINAL REPORT (U), 42 P, (U)
TREE: 960 ; 970

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DASA 2583

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2593
ADNO: 515573
AUTH: DELMER T.N. ; DEPLOMB E.P. ; KOPPEL J.U. ; MATTESON L.R. ; MOORE
D.C. ; MOORE R.W. ; ROUSE C.A. ; SOWLE D.H.
CLSS: SRD 1
CCDE: HACE ; HANC ; TUF; HOIL ; NITRO ; RANC ; DAC ; BERN ; SAGE
CONN: DASA 01-69-C-0049
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO CA)
DATE: 7010
DESC: Nuclear RDT&E Research Program Descriptions EM propagation
atmospheric chemistry L1 PHOTOIONIZATION CALCULATION TECHNIQUES

DESC: Nuclear Weapon Phenomenology Fireball Chemistry L1
DESC: Nuclear Weapon Environment Visible Output energy spectrum L1
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1 SEVERAL
ANALYTICAL APPROXIMATIONS
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1
DESC: THEORY
REPN: GULF RT 11010 ; DASA 2593
TSHO: HI-ALT
SOCE: SPARTAN
SUJO: 1-420-000 ; 1-620-000 ; 2-160-000 ; 2-213-000 ; 4-120-000
TEMP: 79048
TITL: EFFECTS OF HIGH ALTITUDE NUCLEAR EXPLOSIONS (U), CA. 300 P., (SRD)

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DASA 2593

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2599
ADNO: 732025
AUTH: SAENGER E.L. ; SILBERSTEIN E.B. ; ARON B.S. ; HORWITZ H. ; KEREIAKES
J.G. CHENI. ; WINGET C. ; GLESER G.C.
CLSS: U
CONN: DASA 01 69 C 0131
CORP: UNIVERSITY OF CINCINNATI COLLEGE OF MEDICINE (CINCINNATI OHIO)
DATE: 7012
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: SIMULATION (X RAY) ; EXPERIMENTAL
REPN: DASA 2599
SUJO: 3-312-100
TITL: RADIATION EFFECTS IN MAN. MANIFESTATIONS AND THERAPEUTIC EFFECTS
(U), 100 P., (U)

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DASA 2599

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2600
ADNO: 880340L
AUTH: GREEN W. D.
CLSS: U
CONN: DASA 01 70 C 0159
CORP: METEOROLOGY RESEARCH, INC (ALTADENA-CA)
DATE: 7011
DESC: test instruments visible L1
DESC: test instruments nuclear radiation fallout debris sampling

collectors L1 PARTICLE DENSITY P52

DESC: Nuclear Weapon Environment dust moisture injection atmosphere L1

DESC: SIMULATION THEORY EXPERIMENTAL

REPN: DASA 2600 ; MR170 FR 948

SUJO: 2-222-400 ; 4-345-000 ; 4-382-000

TITL: AIRBORNE SAMPLING AND ANALYSIS OF PARTICULATES FROM THE DIAL PACK
EVENT (U), 86 P, (U)

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DASA 2600

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copy: 1 id: 75591-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2602

ADNO: 516670

AUTH: JOHNSON E.D. ; SWENSEN L.V. ; MCMURRAY L.R. ; WHITE L.M. ; KLEINER
C.T. ; HOCHWALD W.

CLSS: C 3

CCDE: SECURE

CONN: DASA 01 70 C 0070

CORP: NORTH AMERICAN ROCKWELL, AUTONETICS DIV. (ANAHEIM, CA)

DATE: 7010

DESC: Nuclear Weapon Effects electronic subsystems analysis circuit

network L1 TREE CIRCUIT ANALYSIS

DESC: CODE

EMPF: 330

REPN: C70 703/501 ; DASA 2602

SUJO: 3-219-000

TEMP: 79547

TITL: SECURE PROGRAM SYSTEM EVALUATION CODE UNDER RADIATION ENVIRONMENT
(U), 142 P.,(C)

TREE: 330

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DASA 2602

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2605

ADNO: 730124

AUTH: CAMPBELL P.M.

CLSS: U

CCDE: TRACE

CONN: DASA 01 70 C 0131

CORP: SCIENCE APPLICATIONS INC (LA JOLLA CA)

DATE: 7011

DESC: Radiation Transport x-ray L1

DESC: THEORY

REPN: SAI 70 122 ; DASA 2605
SUJO: 9-640-000
TTTL: TWO-DIMENSIONAL CHARACTERISTIC RAY CODE DEVELOPMENT (U), 116 P., (U)
TREE: 980

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DASA 2605

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2614
ADNO: 883014L
AUTH: FRENCH R.L. ; MOONEY L.G. ; NEWELL J.M. ; SCHAEFFER R.M.
CLSS: U
CCDE: (SHIP SHIELDING)
CORP: RADIATION RESEARCH ASSOCIATES, INC (FORT WORTH TEX)
DATE: 7004
DESC: Nuclear Weapon Effects ship systems surface ships L1 CREW
DESC: THEORY PROMPT RADIATION
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L5
SHIELDING

REPN: RRA T707 ; DASA 2614
TSHO: LOW-ALT ; SURFACE
SUJO: 3-122-000 ; 3-312-100
TTTL: ANALYSIS OF INITIAL RADIATION PROTECTION ABOARD THE CVA-66 (U), 63
P., (U)

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DASA 2614

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INUM: DASA 2615

ABS: Current data and techniques for predicting the initial radiation exposure at or near the ground surface resulting from the detonation of nuclear weapons were reviewed and evaluated. State-of-the-art models were then developed for neutron dose, secondary gamma-ray exposure occurring during the first minute following a detonation. The neutron and secondary gamma model yields results for slant ranges up to 4,800 meters from each of eight different types of weapons. The results may be adjusted for the desired burst height and air density. The fission-product gamma-ray model incorporates source spectra, source decay rates, cloud rise approximations, and hydrodynamic enhancement treatments based on the work of a number of previous investigators. The model provides for a wide variety of burst heights and air densities and provides for slant ranges up to 4,800 meters.

ABS: The models and the incorporated data were validated through

extensive comparison with weapon test results and with other calculated and semi-empirical data. From these comparisons, it was concluded that neutron doses may be predicted within approximately 25 percent and that the total gamma-ray exposures may be predicted within approximately 50 percent if the weapon characteristics and the burst conditions are known.

ADNO: 519467
AUTH: MOONEY L.G. ; FRENCH R.L.
CLSS: SRD 1 CNWDI
CORP: RADIATION RESEARCH ASSOCIATES. INC. (FORTH WORTH, TEX.)
DATE: 6912
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
DESC: HENRE SIMULATION (REACTOR, ACCELERATOR) BREN COOL-1 ; THEORY TABULAR
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1 SOURCES
P. 10
REPN: RRA T93 ; DASA 2615
SHOT: WASP ; ERIE ; OWENS ; PRISCILLA ; FIZEAU ; FRANKLIN ; STOKES ;
DOPPLER ; WILSON ; GEORGE ; FLATHEAD ; KING ; DAKOTA ; NECTAR ; ZUNI
; NAVAJO
TSHO: LOW ALTITUDE
SOCE: [REDACTED]
SUJO: 1-110-000 ; 1-120-000 ; 1-710-000
TEMP: A0384
TITL: IMPROVED MODELS FOR PREDICTING NUCLEAR WEAPON INITIAL RADIATION
ENVIRONMENTS (U), 144 P., (SRD/CNWDI)
TNFF: 4850
TREE: 910 ; 920
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DASA 2615
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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DASA 2618
ADNO: 725162
AUTH: FISHER R.H. ; WIEHE J.W.
CLSS: U
CCDE: FSCATT
CONN: DASA 01 70 C 0055
CORP: SYSTEMS SCIENCE AND SOFTWARE (LA JOLLA CA)
DATE: 7011
DESC: Radiation Transport x-ray L1
DESC: CODE
DESC: Cross Sections x-ray L1
REPN: DASA 2618 ; 3SCR 318
SUJO: 9-640-000 ; 9-840-000
TITL: USERS GUIDE TO THE FSCATT CODE (U), 126 P., (U)
TREE: 980

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DASA 2618

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2661 1

ADNO: 885647

AUTH: THOMAS P.D. ; VINOKUR M. ; WOOD A.D.

CLSS: U

CCDE: 2-ZAP-2

CONN: DASA 01 69 C 0160

CORP: LOCKHEED PALO ALTO RESEARCH LAB (PALO ALTO CA)

DATE: 7010

DESC: THEORY EXPERIMENTAL

DESC: Radiation Transport x-ray L1 IN LOS PIPE

REPN: LMSC B263196 ; DASA 2661 1

SUJO: 9-640-000

TITL: MULTIDIMENSIONAL TRANSIENT FLOW INTERACTIONS BETWEEN TWO MATERIALS,
VOL. 1-ALGORITHM FOR NUMERICAL SOLUTION AND SHOCK TUBE EXPERIMENTAL
STUDIES (U), 131 P.,(U)

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DASA 2661 1

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2661 2

ADNO: 516153

AUTH: THOMAS P.D.

CLSS: SRD

CCDE: 2-ZAP-2

CONN: DASA 01 69 C 0160

CORP: LOCKHEED PALO ALTO RESEARCH LAB (PALO ALTO CA)

DATE: 7010

DESC: Nuclear Test Simulation Field Programs experiment design underground
systems L1 POSSIBLE CONTAMINATION IN LOS PIPE

DESC: Fluid Mechanics hydrodynamics L1

DESC: THEORY

DESC: Radiation Transport x-ray L1

REPN: LMSC B263196 ; DASA 2661 2

SUJO: 4-829-300 ; 9-410-000 ; 9-640-000

TEMP: 79429

TITL: MULTIDIMENSIONAL TRANSIENT FLOW INTERACTIONS BETWEEN TWO MATERIALS,
VOL. 2-JETTING PHENOMENA IN LOS PIPE FLOW (U), 63 P., (SRD)

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DASA 2661 2

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2679
ADNO: 515936
AUTH: BOWYER J.M. JR ; NOWAK M.J.
CLSS: SRD 1 CNWDI
CONN: DASA 01 70 C 0108
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO CA)
DATE: 7010
DESC: Nuclear Weapon Phenomenology UGT Debris in tunnels
DESC: SIMULATION ; THEORY TABULAR EXPERIMENTAL
REPN: GULF RT 10401 ; DASA 2679
SUJO: 2-230-000
TEMP: 79186
TITL: ANALYSIS OF EXPLOSIVELY DRIVEN EXPANSION TUBE EXPERIMENTS (U), 115
P., (SRD CNWDI)

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DASA 2679

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created: 12/27/1991 type: REPORT permanent

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INUM: DNA 2051H
ABS: This guide is intended primarily for management personnel associated with the development of electronic systems that must survive TREE. It may also be useful as a primer for engineering and scientific personnel. The material is covered in 13 parts as follows: an introduction, functional aspects of system vulnerability, the nuclear-weapon burst, transport properties and the electronic-system environment, fundamental effects on electronic materials, effects on electronic components, effects on electronic circuits and systems, hardening verification of hardness: simulation, potential-problem areas and future trends, appendixes (glossary and selected mathematical relationships), selected TREE information sources, and bibliography. All nuclear phenomenology and effects on electronics are discussed except those that relate to the nuclear Electromagnetic Pulse (EMP).

ADNO: 519756
AUTH: KALINOWSKI J.J.
CLSS: SRD 1
CONN: DASA 01 69 C 0116
CORP: BATTELLE MEMORIAL INSTITUTE, COLUMBUS LABS. (COLUMBUS, OHIO.)
DATE: 7002
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: Nuclear Weapon Environment Summaries L1
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors

vacuum tubes dielectrics relays switches L1

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1

DESC: Nuclear Weapon Effects reentry systems RV L5 RV

DESC: Nuclear Weapon Effects electronic subsystems L1

DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L5 SIMULATION

DESC: TUTORIAL TREE ; SUMMARY

REPN: DNA 2051H

SUJO: 1-000-000 ; 3-113-000 ; 3-210-000 ; 3-221-000 ; 3-222-000 ;
3-229-000 ; 4-170-000

TEMP: A0580

TITL: MANAGEMENT GUIDE TO TRANSIENT-RADIATION EFFECTS ON ELECTRONICS
(TREE) (U), 104P., (SRD)

TREE: 120

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DNA 2051H

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created: 12/27/1991 type: REPORT permanent

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INUM: EMP 1-5-73

ABS: The radiated field is calculated for the case where a gap generator
in an infinite cylindrical antenna is excited by a step function of
voltage. The gap voltage waveform required to generate a radiation
field decaying exponentially in time is also determined.

AUTH: Latham R.W. ; Lee K.S.H.

CLSS: U

CORP: Northrop Corporate Labs.

DATE: 6902

DESC: THEORY

DESC: Simulation Facilities Techniques EMP L1

EMPF: 722

SUJO: 4-271-000

SYMJ: Electromagnetic Pulse Sensor and Simulation Notes; Vol. 5, Notes 68
through 78

TITL: Pulse Radiation and Synthesis by An Infinite Cylindrical Antenna
(U), 24 P, (U)

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EMP 1-5-73

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copy: 1 id: 44009-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: EMP 1-6-83

ABS: The time behavior is obtained of the radiation field of an infinite
cylindrical antenna loaded along its length with uniform resistance
and excited by a step-function voltage across a circumferential gap
of infinitesimal width. It is found that the late time behavior of

the radiation field is inversely proportional to the square of time, whereas in the case of no loading, it varies in inverse proportion to the logarithm of time.

AUTH: Latham R.W. ; Lee K.S.H.
CLSS: U
CORP: Northrop Corporate Labs.
DATE: 6904
DESC: Simulation Facilities Techniques EMP L1
DESC: THEORY
EMPF: 722
SUJO: 4-271-000
SYMJ: Electromagnetic Pulse Sensor and Simulation Notes; Vol. 6, Notes 79 through 91
TITL: Radiation of an Infinite Cylindrical Antenna with Uniform Resistive Loading (U), 19 P, (U)

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EMP 1-6-83

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: EMP 1-8-101

ABS: The time dependence is calculated of the radiated field from a resistive tubular antenna excited by a step-function voltage across a circumferential delta gap. The resistive loading along the antenna is taken to be uniform and independent of frequency. Analytical expressions for the early-time and late-time behavior of the far field are derived. For intermediate time intervals the field is evaluated numerically. The radiation field of the tubular antenna differs from that of the previously treated resistive-loaded antenna mostly for small times and large resistance values.

AUTH: Marin L.
CLSS: U
CORP: Northrop Corporate Labs.
DATE: 7003
DESC: Simulation Facilities Techniques EMP L1
DESC: THEORY
EMPF: 722
SUJO: 4-271-000
SYMJ: Electromagnetic Pulse Sensor and Simulation Notes; Vol. 8, Notes 101-111
TITL: Radiation from a Resistive Tubular Antenna Excited by a Step Voltage (U), 71 P., (U)

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EMP 1-8-101

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created: 12/27/1991 type: REPORT permanent

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INUM: EMP 1-8-110

ABS: An antenna for the radiation of a fast rising electromagnetic pulse with large peak fields implies a source voltage with high electric fields in the source region. In order to reduce the peak electric fields at the source, the source region can be made larger. In this note, the pulse radiation by an infinite cylindrical antenna excited by a distributed source region is considered. To achieve a fast rising radiated pulse, a distributed source for launching spherical waves is used. The exact expressions for the far zone radiated fields are developed and the time history of the radiation is obtained. Also, the small and large time asymptotic forms of the radiation fields are obtained.

AUTH: Barnes P.R.

CLSS: U

CORP: Air Force Weapons Lab. Y

DATE: 7007

DESC: THEORY

DESC: Simulation Facilities Techniques EMP L1

EMPF: 722

SUJO: 4-271-000

SYMJ: Electromagnetic Pulse Sensor and Simulation Notes; Vol. 8, Notes 101-111

TITL: Pulse Radiation by an Infinitely Long, Perfectly Conducting, Cylindrical Antenna in Free Space Excited by a Finite Cylindrical Distributed Source Specified by the Tangential Electric Field Associated with a Biconical Antenna (U), 109 P. (U)

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EMP 1-8-110

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created: 12/27/1991 type: REPORT permanent

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INUM: EMP 2-3-61

ABS: The time-dependent neutron and photon transport equations, in two dimensions, are solved for a point source in an air-over-ground geometry. In particular, the ionization rate and electric current in air, due to neutron sources, are computed. The electric current comes from Compton collisions of photons produced by inelastic neutron scattering. The ionization rate arises from neutron and photon collisions. Time-dependent results are obtained for 250 spatial positions within one kilometer from the neutron source. The neutron sources are at the air-ground interface and have various energies, covering the interval between 1 MeV and 14.7 MeV.

ADNO: 854710

AUTH: Schaefer R.R. ; Stevens C.A.

CLSS: U

CCDE: NIES

CORP: Gulf General Atomic (San Diego, CA)

DATE: 6905

DESC: CLOSE IN OBSERVATION ; THEORY

DESC: Cross Sections gamma L5

DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry prompt
neutron L1

DESC: Radiation Transport neutron L1

DESC: Cross Sections neutron L1

DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1

COMPTON CURRENT

EMPF: 240

REPN: AFWL TR 69 8

TSHO: SURFACE

SUJO: 2-312-300 ; 2-510-000 ; 9-650-000 ; 9-820-000 ; 9-830-000

SYMJ: Electromagnetic Pulse Theoretical Notes; Vol. 3, Notes 49 through 62

(U)

TITL: Neutron Induced Electrical Sources (U), 70 P, (U)

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EMP 2-3-61

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copy: 1 id: 44056-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: EMP 2-4-63

ABS: The gamma source induced by inelastic scatter and fast capture of
neutrons in air may be approximated by a stationary point source
over an appreciable time span, depending upon observer distance.
This note describes the required expressions for this approximation,
and then presents calculations of dose and radial current for pulsed
neutron sources in narrow energy bands.

AUTH: Hale C.R.

CLSS: U

CORP: Air Force Weapons Lab. (Kirtland AFB, NM)

DATE: 6907

DESC: Radiation Transport gamma L1

DESC: Radiation Transport neutron L1

DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1

COMPTON CURRENT

DESC: THEORY

DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L1

EMPF: 240

TSHO: LOW-ALT

SUJO: 1-740-000 ; 2-510-000 ; 9-620-000 ; 9-650-000

SYMJ: Electromagnetic Pulse Theoretical Notes; Vol. 4, Notes 63 through 89

(U)

TITL: Radial Current and Dose Rate from Neutron Induced Gamma Quanta in
Uniform Air by Means of the Stationary Source Approximation (U), 37
P, (U)

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EMP 2-4-63

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created: 12/27/1991 type: REPORT permanent

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INUM: EMP 3-11-141

ABS: The electromagnetic scattering behavior of a spherical shell with a circular aperture is studied. The shell is assumed to be perfectly conducting and infinitesimally thin, and is illuminated by a plane wave symmetrically incident upon the aperture. The application of the method of least square error, as well as of a modified version is fully discussed. The modification consists of the separating out of the appropriate surface field behavior near to the edge of the aperture, and was carried out to overcome the slow convergence and marginal accuracy of the original approach. The marked improvement provided by the modification is clearly evident.

ABS: The numerical study is limited to the frequency range corresponding to $0.8 \leq ka \leq 4.85$ where a is the radius of the spherical shell, and numerical values of the backscattering cross sections for the aperture angle $\theta = 30^\circ$ and 90° , as well as for the tangential field components over the boundary surface for $\theta = 30^\circ$, are presented. To verify these results and to obtain more physical insight into the scattering behavior, experimental measurements of the backscattering cross sections for $\theta = 15^\circ, 30^\circ, 45^\circ, 60^\circ$ and 90° , and of the current components for $\theta = 30^\circ$, are obtained using two sets of spherical shell models.

ABS: It is observed that a spherical shell with aperture-on incidence has, in general, a higher backscattering cross section than a solid sphere except at values of ka near to the cavity resonances, where marked reductions occur. A comparison of the numerical and experimental results is made.

AUTH: Chang S. ; Senior T.B.A.

CLSS: U

CORP: University of Michigan Radiation Lab. (Ann Arbor, MI)

DATE: 6904

DESC: THEORY EXPERIMENTAL TABULAR CODE

DESC: Electromagnetic Theory Applications L1

EMPF: 304

SUJO: 9-300-000

SYMJ: Electromagnetic Pulse Interaction Notes; Vol. 11, Notes 136 through 143 (U)

TITL: Scattering by a Spherical Shell with a Circular Aperture (U), 144 P., (U)

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EMP 3-11-141

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created: 12/27/1991 type: REPORT permanent

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INUM: EMP 3-16-181

ABS: This treatise is divided into three distinct parts. 1) A numerical basis transformation technique is described which may be applied, in

conjunction with point-matching methods (e.g., piecewise uniform or piecewise linear methods), to obtain least square solutions of electromagnetic scattering by thin wires. It is shown that reductions in both computer solution time and computer storage requirements result. The technique is demonstrated by its application, along with piecewise uniform methods, to the solution of scattering by circular and elliptical loops, straight wires and open circular arcs. 2) A computational technique is developed for determining certain modes (termed characteristic modes in the literature) which are useful for the solution of scattering and radiation problems.

ABS: 3) The basis transformation, least square, and mode-finding techniques are combined to compute characteristic mode current distributions of circular and elliptical loops, straight wires, circular arcs, and helices. In addition to the above topics, expressions are derived, in terms of the characteristic mode pattern functions, for the back-scattering and tumble average backscattering cross sections of an object for arbitrary transmitter and receiver polarizations. Data are given in graphical form for the aforementioned objects for the backscattering cross section averaged over all possible tumble aspects as well as for various fixed orientations. Also given are characteristic mode solutions for the input admittance of circular loops.

AUTH: Turpin R.H.

CLSS: U

CCDE: ZZ (EM SCATTERING) OSU

CORP: Ohio State University

DATE: 7000

DESC: Nuclear Weapon Effects structures aboveground models L1

DESC: THEORY CODE

DESC: Electromagnetic Theory Applications L1

EFFT: EMP

EMPF: 304

SUJO: 3-259-000 ; 9-300-000

SYMJ: Electromagnetic Pulse Interaction Notes; Vol. 16, Notes 180 through 186 (U)

TITL: Basis Transformation, Least Square, and Characteristic Mode Techniques for Thin-Wire Scattering Analysis (U), 165 P., (U)

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EMP 3-16-181

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created: 12/27/1991 type: REPORT permanent

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INUM: emp 3-17-188

ABS: The problem of electromagnetic radiation and scattering from conducting bodies of revolution, both loaded and unloaded, is considered. The solution is obtained by the method of moments applied to the integro-differential equation, and is expressed in terms of generalized network parameters. Computer programs are given for plane-wave scattering and for radiation from apertures. The

programs are valid for solid bodies, zero thickness conductors, and bodies with points and edges. The solution for planar bodies is also a solution for diffraction through apertures in a conducting plane, according to Babinet's principle. Representative computations are given for scattering and radiation from disks, washers, toroids, hemispheres, and cone-spheres.

AUTH: Harrington R.F. ; Mautz J.R.
CLSS: U
CCDE: ZZ (EMP COUPLING) SYRACUSE U.
CORP: Syracuse University (Syracuse, NY)
DATE: 6907
DESC: THEORY TABULAR CODE
DESC: Nuclear Weapon Effects structures aboveground models L1
EFFT: EMP
EMPF: 301 ; 304
SUJO: 3-259-000
SYMJ: Electromagnetic Pulse Interaction Notes; Vol. 17, Notes 187 through 192 (U)

TITL: Radiation and Scattering from Bodies of Revolution (U), 96 P., (U)

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EMP 3-17-188

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copy: 1 id: 54092-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: EMP 3-17-189

ABS: The problem of radiation and scattering from loaded conducting bodies of revolution is considered. A numerical solution is obtained from the integro-differential equations by the method of moments. Computer programs are given for plane-wave scattering, axial incidence, and for aperture radiation, rotationally symmetric excitation. Computations for some representative loaded antennas and loaded scatterers are graphed to illustrate the use of the programs.

AUTH: Harrington R.F. ; Mautz J.R.
CLSS: U
CCDE: ZZ (ELECTROMAGNETIC SCATTERING)
CORP: Syracuse University (Syracuse, NY)
DATE: 7001
DESC: THEORY CODE
DESC: Electromagnetic Theory Applications L1
EMPF: 304
SUJO: 9-300-000
SYMJ: Electromagnetic Pulse Interaction Notes; Vol. 17, Notes 187 through 192 (U)

TITL: Computation of Radiation and Scattering from Loaded Bodies of Revolution (U), 51 P., (U)

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EMP 3-17-189

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created: 12/27/1991 type: REPORT permanent
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INUM: EMP 3-17-191

ABS: The problem of electromagnetic radiation and scattering from thin wires with arbitrary shape and with arbitrary excitation and loading is considered. This is treated as a boundary value problem which is formulated as an operator equation. Matrix methods along with the method of moments are used to solve the operator equation approximately. Computer programs suitable for handling radiation problems and plane-wave scattering problems are presented and described. For the former, current distributions, field patterns, and input impedances at the driving points are determined. For the latter, current distributions and bistatic radar cross section patterns are found. Examples are given to illustrate several applications of the programs. Numerical results are compared with experimental data and with results computed by other theoretical methods.

AUTH: Chao H.H. ; Strait B.J.

CLSS: U

CCDE: ZZ (EM RADIATION) SYRACUSE U.

CORP: Syracuse University (Syracuse, NY)

DATE: 7009

DESC: Nuclear Weapon Effects structures aboveground models L1

DESC: THEORY CODE

DESC: Simulation Facilities Techniques EMP L1

EFFT: EMP

EMPF: 304 ; 722

SUJO: 3-259-000 ; 4-271-000

SYMJ: Electromagnetic Pulse Interaction Notes; Vol. 17, Notes 187 through 192 (U)

TITL: Computer Programs for Radiation and Scattering by Arbitrary Configurations of Bent Wires (U), 95 P., (U)

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EMP 3-17-191

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created: 12/27/1991 type: REPORT permanent

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INUM: GOMAC69-039

AUTH: Hampel D.

CLSS: U

CORP: RCA Defense Advanced Communication Lab (Princeton, NJ)

DATE: 6909

DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1 TWO

PHASE THREE WINDING SHIFT REGISTER + SINGLE PHASE TWO WINDING SHIFT REGISTER

DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL

EFFT: X-RAY

SUJO: 3-225-000

SYMJ: 1969 Government Microcircuit Applications of Conference Digest of
Papers

TITL: Radiation Hardened Magnetic Registers (U), 3 P., (U)

ABS: There are continuing improvements in radiation-hardened digital
circuitry. In fact, relatively high-performance microcircuits are
presently available which can meet respectable radiation
specifications. However, there is room for improvement, particularly
in the transient response of such circuits. Now, not all the
circuits used in a system need be hardened absolutely; so long as
they can tolerate associated permanent degradation effects and
recover within a reasonable period of time, such circuits as
amplifiers, power supplies, and combinational logic networks can be
hardened to a lesser degree. It is the sequential circuits-control
flip-flops, registers, counters, etc., that are most important.

ABS: If transient-induced signals exceed the thresholds of these
circuits, erroneous information could be processed, critical data
could be lost, or excessive delays might be encountered in
re-initiating a problem. Hence, the need for compatible hardened
registers.

TREE: 341

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GOMAC69-039

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created: 12/27/1991 type: REPORT permanent

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INUM: GOMAC69-042

AUTH: Alexander D.R. ; Mullis J.

CLSS: U

CCDE: SCEPTRE

CORP: Air Force Weapons Lab (Kirtland AFB, NM)

DATE: 6909

DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
709 OPERATIONAL AMPLIFIER

DESC: THEORY

EFFT: TREE

SUJO: 3-213-000

SYMJ: 1969 Government Microcircuit Applications of Conference Digest of
Papers

TITL: Computer Simulation of the 709 Operational Amplifier in a Radiation
Environment (U), 2 P., (U)

TREE: 369

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GOMAC69-042

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: GOMAC69-044
AUTH: Dennehy W.J. ; Holmes-Siedle A.G. ; Leopold W.F.
CLSS: U
CONN: F 33617 67 C 1140
CORP: RCA Astro Electronics Div. (Princeton, NJ)
DATE: 6909
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
CMOS-1C SINGLE INVERTER TYPE
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
EFFT: BETA
SUJO: 3-222-000
SYMJ: 1969 Government Microcircuit Applications of Conference Digest of
Papers

TITL: Tree Effects in Complementary Symmetry MOS Transistor Integrated
Circuits (U), 2 P., (U)

ABS: Experimental studies on the effect of a transient burst of ionizing
radiation to monolithic silicon CMOS circuits is described. A simple
first order model is used to describe the data at low to medium dose
rate (i.e. less than 8×10^8 rads Si/sec). At higher dose
rates, the simple first order model breaks down due to the
occurrence of strong, but non-destructive parasitic effects
apparently caused by the presence of a four layer structure. The
relationship of these effects to the transient malfunction of a
digital system are discussed.

TREE: 325

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GOMAC69-044

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created: 12/27/1991 type: REPORT permanent

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INUM: GOMAC69-047
AUTH: Simons M. ; Donovan R.P. ; Wortman J.J.
CLSS: U
CORP: Research Triangle Institute (Research Triangle Park, NC)
DATE: 6909
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
DIFFERENTIAL OPERATIONAL BROADBAND AMPLIFIERS
DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DTL NAND/NOR GATES T2L GATE
EFFT: X-RAY
SUJO: 3-213-000 ; 3-222-000
SYMJ: 1969 Government Microcircuit Applications of Conference Digest of
Papers

TITL: Latchup in Dielectrically-Isolated Integrated Circuits (U), 2 P.,
(U)

ABS: An investigation of the latchup susceptibility of dielectrically
isolated integrated circuits has been conducted using high intensity
pulsed ionizing radiation. A variety of circuit types representing
different dielectric isolation techniques were studied. It has been

concluded that through careful design, latchup can be eliminated from the dielectrically isolated IC.

TREE: 320

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GOMAC69-047

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: GOMAC69-113

AUTH: Micheletti F.B. ; Kolondra F. ; Mark G.

CLSS: U

CORP: RCA LABS. (PRINCETON, N.J.)

DATE: 6909

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 MOS TRANSISTORS WITH AL2 O3

DESC: SIMULATION ; EXPERIMENTAL

EFFT: BETA

SUJO: 3-221-000

SYMJ: 1969 Government Microcircuit Applications of Conference Digest of
Papers

TITL: Plasma Anodized Al sub 2 O sub 3 for MOS Applications (U), 2 P., (U)

ABS: MOS capacitors and transistors have been fabricated with
plasma-grown Al sub 2 O sub 3 as the channel insulator. These devices
generally show a low interface state density, are stable under
bias-temperature stress, and show higher radiation resistance than
comparable structures using SiO sub 2. The properties of the
insulating film and its interface with the semiconductor depend on
the specific anodization conditions as well as pre- and
post-anodization treatments.

TREE: 325

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GOMAC69-113

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created: 12/27/1991 type: REPORT permanent

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INUM: GOMAC69-116

AUTH: Donovan R.P. ; Simons M. ; Monteith L.K.

CLSS: U

CORP: Research Triangle Institute (Research Triangle Park, NC) ; North
Carolina State Univ. (Raleigh, NC)

DATE: 6909

DESC: SIMULATION (CO 60) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 MOS CAPACITORS

EFFT: GAMMA

SUJO: 3-229-000

SYMJ: 1969 Government Microcircuit Applications of Conference Digest of
Papers

TITL: Radiation Hardening of Thermal Oxides on Silicon via Ion
Implantation (U), 2 P., (U)

TREE: 430

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GOMAC69-116

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created: 12/27/1991 type: REPORT permanent

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INUM: GOMAC69-119

AUTH: Kjar R.A. ; Peel J.L. ; Wrigley C.Y.

CLSS: U

CORP: Autonetics (Anaheim, CA)

DATE: 6909

DESC: SIMULATION (CO 60) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 MOS FETS CHROMIUM MOS FETS

EFFT: GAMMA

SUJO: 3-221-000

SYMJ: 1969 Government Microcircuit Applications of Conference Digest of
Papers

TITL: Radiation Effects in Chromium Gate MOS FET's (U), 4 P., (U)

ABS: A comparison of the threshold shifts due to ionizing radiation in
chromium and aluminum gate transistors is presented. Both types of
transistors were irradiated, under bias, in a Co-60 gamma cell. At
low doses, the chromium gate transistors show an order of magnitude
improvement. The relative advantage of the chromium gate transistors
is less at high doses because dose saturation occurs at a lower dose
in the aluminum gate transistors. Irradiation with positive bias
causes much greater shifts for both types of transistors, and no
measurable effect due to chromium is found.

TREE: 325

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created: 12/27/1991 type: REPORT permanent

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INUM: GOMAC69-123

AUTH: Hichols D.K. ; Nielsen R.L.

CLSS: U

CCDE: TRAC

CORP: Autonetics (Anaheim, CA.)

DATE: 6909

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
NAND GATES SWITCHES FLIP FLOPS MULTIVIBRATORS

DESC: SIMULATION ; EXPERIMENTAL
EFFT: TREE
SUJO: 3-222-000
SYMJ: 1969 Government Microcircuit Applicaitons of Conference Digest of
Papers
TITL: Comparison of the Effects of Improved Manufacturing Technologies on
the Radiation Response of Microcircuits (U), 3 P., (U)
ABS: Considered are several types of ICs with different circuit
functions, each of which was manufactured by three or more different
technologies, comprising five different technologies in all. The
results of theoretical and experimental programs for characterizing
the responses of these devices to ionizing radiation are presented.
The theoretical portion presents both a computer model (TRAC) and a
method of analysis, used in evaluating the response of the ICs.

TREE: 320 ; 430

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INUM: GOMAC69-126

AUTH: Ahlport B.T.

CLSS: U

CORP: Northrop Corp (Hawthorne, CA)

DATE: 6909

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 LEVER DIODES + TEMPERATURE
COMPENSATED VOLTAGE REFERENCE ZENERS

DESC: SIMULATION (REACTOR, CO 60)

SUJO: 3-221-000

SYMJ: 1969 Government Microcircuit Applications of Conference Digest of
Papers

TITL: Development of Prevision Radiation-Resistant Zener Reference (U), 3
P., (U)

ABS: The usual behavior of several types of Zener processes is
summarized. An optimum approach using single junction alloy parts is
detailed. A second approach using single diffused junctions with
greater p+ concentrations than usual is also reported. Several
difficulties are also noted in other approaches.

TREE: 310 ; 630

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GOMAC69-126

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created: 12/27/1991 type: REPORT permanent

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INUM: GOMAC70-110

AUTH: Allen W.F. Jr. ; Hermann P. ; Nearing L.F.
CLSS: U
CORP: Philco-Ford Corp. (Bluebell, PA) ; General Electric Co., Reentry and
Environmental Systems Div. (Philadelphia, PA)
DATE: 7010
DESC: SUMMARY
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
AMPLIFIER
EFFT: TREE
SUJO: 3-213-000
SYMJ: 1970 Government Microcircuit Applicaitons Conference Digest of
Papers
TITL: Radiation-Tolerant Video, IF, and Operational Amplifier (U), 3 P.,
(U)
ABS: The fabrication of electronic circuitry designed for complex reentry
vehicles, such as the circuitry used in radar fuzes, requires a
specialized form of integrated circuit technology. Hybrid circuitry
technology, which uses thick- or thin-film construction, does not
provide the required density of circuit functions. Although the
conventional diffused integrated circuit technology can meet the
function density requirement, it does not provide the necessary
radiation tolerance. Consequently, an integrated circuit technology
has evolved to satisfy the combination of minimum volume and high
immunity to radiation. The nature of this specialized technology and
the design of a versatile amplifier based on its use are described
in this paper.

TREE: 369

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GOMAC70-110

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created: 12/27/1991 type: REPORT permanent

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INUM: GOMAC70-116

AUTH: Free M.G. ; Renschler E.L.

CLSS: U

CORP: Motorola Integrated Circuit Applications Research Lab. (Phoenix, AZ)

DATE: 7010

DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1 ANALOG MULTIPLIER

DESC: SUMMARY

EFFT: NEUTRON ; GAMMA ; TREE

SUJO: 3-219-000

SYMJ: 1970 Government Microcircuit Applications Conference Digest of
Papers

TITL: Radiation-Hardened Analog Multiplier (U), 4 P., (U)

TREE: 369

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GOMAC70-116

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: GOMAC70-120
AUTH: Yu H-Y ; Grannemann W.W.
CLSS: U
CORP: University of New Mexico (Albuquerque, NM)
DATE: 7010
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 SCR
DESC: THEORY
EFFT: TREE
SUJO: 3-221-000
SYMJ: 1970 Government Microcircuit Applications Conference Digest of
Papers
TITL: Radiation Hardening of Semiconductor-Controlled Rectifier Circuits
to Transient Ionizing Radiation (U), 5 P., (U)
ABS: The junction compensation technique and gate networks have been used
in the radiation hardening of semiconductor controlled rectifiers
(SCRs). SCRs can be switched from "off" to "on" at approximate 10 to
the 7th power, rads silicon/second but can be hardened to better
than 10 to the 10 power, rads silicon/second.

TREE: 310

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GOMAC70-120

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: GOMAC70-127
AUTH: Micheletti F.B. ; Kolandra F.
CLSS: U
CORP: RCA LABS. (Princeton, NJ)
DATE: 7010
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
COS/MOS IC WITH A1203
DESC: SIMULATION (VAN DE GRAAFF) PERMANENT EFFECTS ; EXPERIMENTAL
EFFT: BETA ; TREE
SUJO: 3-222-000
SYMJ: 1970 Government Microcircuit Applications Conference Digest of
Papers
TITL: Long-Term Radiation Effects in Al sub2, O sub 3 COS/MOS Integrated
Circuits (U), 3 P., (U)
ABS: Complementary-symmetry Metal-Oxide-Semiconductor (CMOS/MOS)
integrated circuits, fabricated with Al sub 2 O sub 3 gate
insulator, were subjected to bombardment by 1-MeV electrons while
gate bias was applied. These units exhibited nearly a two decade
improvement in radiation hardness over conventional SiO sub 2 units.
TREE: 320

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GOMAC70-127

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copy: 1 id: 47704-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: GOMAC70-130

AUTH: Goben C.A. ; Bereisa J. ; Irani C.H. ; Han Y.P.

CLSS: U

CCDE: ZZ DETERMINES OPTIMUM SEMICONDUCTOR DEVICE

CORP: University of Missouri (Rolla Rolla, MO)

DATE: 7010

DESC: THEORY SUMMARY

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1

EFFT: TREE

SUJO: 3-221-000

SYMJ: 1970 Government Microcircuit Applications Conference Digest of
Papers

TITL: Optimum Initial Design Criteria for the Impurity Profiles and
Geometries of Radiation-Hardened Diffused Silicon PN Junction
Devices (U), 4 P., (U)

ABS: A computer code for optimizing initial design criteria is developed
specifying the fabrication processes (diffusion time, temperatures,
concentrations) for radiation tolerant double diffused silicon
devices for a-c and d-c operation under the influence of both
displacement and ionizing radiation damage.

TREE: 430

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GOMAC70-130

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copy: 1 id: 47705-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: GOMAC70-134

AUTH: Witteles A.A. ; Eisenberg M.L. ; Wisseman L.

CLSS: U

CORP: Singer-General Precision, Inc (Little Falls, NJ) ; Motorola, INC
(Phoenix, AZ)

DATE: 7010

DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
AMPLIFIER

DESC: SIMULATION (LINAC, REACTOR) ; EXPERIMENTAL

EFFT: NEUTRON ; GAMMA ; TREE

SUJO: 3-213-000

SYMJ: 1970 Government Microcircuit Applications Conference Digest of
Papers

TITL: Performance and Design of a Super-Hardened Monolithic Operational

Amplifier (U), 3 P., (U)

ABS: Neutron displacement damage and ionizing radiation dose-rate can cause a variety of transient and permanent damage in an integrated circuit operational amplifier such as the 709. Catastrophic failure of an IC amplifier can occur as a result of severe degradation of gain, intolerable changes in offset voltage, radiation induced latchup, and device burnout as a result of little or no photocurrent compensation. Until recently the only techniques used to harden integrated circuits were restricted to dielectric isolation, to minimize the possibility of latchup, and shallow base diffusion or bipolar transistors which reduced the gain degradation. Little or no circuit redesign and photocurrent compensation was added.

ABS: The purpose of this paper is to describe the complete evolution through design-nuclear testing iterations, of a "super hardened" IC operational amplifier (Motorola MCE1709) whose performance in a radiation environment is superior to its non-hardened counterpart by two orders of magnitude. This paper can also serve as a good example of proper application of hardened techniques presently available to the TREE community.

TREE: 430 ; 369

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: GOMAC69

TITL: 1969 Government Microcircuit Applications Conference Digest of Papers (U), 200 P., (U)

CORP: NBS ; DOD ; NASA

DATE: 6909

ADNO: 863826

CLSS: U

ABS: The Conference objective, to provide government and industry attendees an opportunity to review current applications efforts and requirements as a basis for accelerating microelectronic applications and developing future research and development trends, is reflected in the comprehensive technical program. Many timely facets of the microcircuit field are covered: Memories and Converters, Radiation Response, Processing and Packaging, Reliability, Digital Systems, Use of Linear Integrated Circuits, Solid-State Devices and Microwave Integrated Circuits.

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GOMAC69

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copy: 1 id: 149572-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 5/5/1994 type: REPORT permanent

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INUM: GOMAC70
TITL: 1970 Government Microcircuit Applications Conference Digest of
Papers (U), 254 P., (U)
CORP: DoD ; NASA ; NBS ; DSA
DATE: 7010
CLSS: U
ABS: The objective of GOMAC is to provide government, educational and
industrial attendees an opportunity to review and evaluate current
efforts in device development and microelectronic applications. The
program for this Conference includes excellent papers on microwave,
acoustic, praetersonic, hybrid, digital, and optoelectronic devices,
circuits, and systems. Also included are presentations on such
topics as microelectronic design, processing, packaging, radiation
hardening, and quality assurance.

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GOMAC70

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copy: 1 id: 149573-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 5/6/1994 type: REPORT permanent

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INUM: JDR03B-3-329
AUTH: MUNK R.
CLSS: S
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA.)
DATE: 7010
DESC: Nuclear weapon test placement including cab construction for actual
detonation L1 NAVIGATIONAL REFERENCE SYSTEMS LINE OF SIGHT TRACKING
SYSTEMS TARGET MARKING SYSTEMS AIR TO GROUND DELIVERY CEP ERRORS
DESC: SURVEY
REPN: JDR 71 5
SUJO: 4-833-000
SYMJ: BOUND IN JOURNAL OF DEFENSE RESEARCH, SERIES B. TACTICAL WARFARE,
VOL. 3B, NO.3
TEMP: 81175
TITL: EXTERNALLY AIDED NAVIGATION AND WEAPON-DELIVERY SYSTEMS (U), 22 P.,
(S)

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JDR03B-3-329

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copy: 1 id: 84460-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MAD503813
AUTH: ROSS R.C.
CLSS: SRD 1
CONN: F04694-67-C-0105
CORP: PARSONS (RALPH M) CO (LOS ANGELES CA)
DATE: 6907

REPN: RMP TR 4171 VOL. 3 APP. 1 ; SAMSO TR 69 213 VOL. 3 APP. 1
TEMP: 71702
TITL: CLOSURE ANALYSIS AND TEST STUDY, VOL. 3-RADIATION ANALYSIS, APPENDIX
1 (U), CA. 123 P., (SRD)

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MAD503813

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copy: 1 id: 85715-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MAD690551
ADNO: AD 690551
AUTH: STERN V.M.
CLSS: U
CONN: N 00228 68 C 0157
CORP: UNIVERSITY OF CALIFORNIA (RIVERSIDE-CA)
DATE: 6906
TITL: INSECT PESTS OF MAJOR FOOD CROPS, THEIR REINVASION POTENTIAL AND THE
EFFECTS OF RADIATION ON ARTHROPOIDS, FINAL REPORT, (U) CIRCA 190 P
(U)

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MAD690551

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copy: 1 id: 86071-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MAD691454
ADNO: AD 691454
AUTH: PRICE J.H. ; FRENCH R.L.
CLSS: U
CONN: N00228 68 C 1770
CORP: RADIATION RESEARCH ASSOCIATES INCORPORATED (FORT WORTH-TX)
DATE: 6901
REPN: RRA T 91
TITL: MONTE CARLO STUDY OF INTERIOR PARTITION EFFECTS ON FALLOUT SHIELDING
(U), FINAL REPORT, 66 P, (U)

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MAD691454

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copy: 1 id: 86084-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MAD691848
ADNO: AD 691848
AUTH: FAW R.E. ; RUBIN R.M. ; ROYER J.M. ; COOLBAUGH M.J.

CLSS: U
CONN: N00228 67 C 2999
CORP: KANSAS STATE UNIVERSITY (MANHATTAN-KS)
DATE: 6901
REPN: KEES SR 82
TITL: MEASUREMENT OF ANGULAR AND ENERGY SPECTRA OF WALL TRANSMITTED
RADIATION (U), FINAL REPORT, 179 P, (U)

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MAD691848

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copy: 1 id: 86086-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: MAD693520
ADNO: AD 693520
AUTH: MINVIELLE L.J.P. ; HOFFMAN D.W. ; RAINEY S.C.
CLSS: U
CONN: OCD-PS-66-200 (65)
CORP: NAVAL RADIOLOGICAL DEFENSE LAB (SAN FRANCISCO CA)
DATE: 6905
REPN: NRDL TR 69 38
TITL: PRELIMINARY ANALYSIS OF THE APPLICATION OF FALLOUT MONITORING DATA
TO FALLOUT PREDICTION DURING AND AFTER A NUCLEAR ATTACK (U), 61 P.,
(U)

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MAD693520

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copy: 1 id: 86096-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: MAD696875
ADNO: AD 696875
AUTH: LAUMBACH D.D. ; PROBSTEN R.
CLSS: U
CCDE: ZZ HYDRO
CORP: MASSACHUSETTS INSTITUTE OF TECHNOLOGY (CAMBRIDGE-MA)
DATE: 6907
DESC: THEORY
REPN: PUB 69 5 ; NONR 1841 93
TITL: SELF-SIMILAR STRONG SHOCKS WITH RADIATION IN A DECREASING
EXPONENTIAL ATMOSPHERE (U), CIRCA 20 P, (U)

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MAD696875

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copy: 1 id: 86126-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MAD698135
ADNO: AD 698135
AUTH: BUTLER C.P.
CLSS: U
CORP: NAVAL RADIOLOGICAL DEFENSE LAB (SAN FRANCISCO CA)
DATE: 6905
DESC: Nuclear Weapon Effects structures aboveground cities L1 MASS FIRES
REPN: AD 698 135
SHOT: FLAMBEAU
SUJO: 3-252-000
TITL: OPERATION FLAMBEAU CIVIL DEFENSE EXPERIMENT AND SUPPORT. EYEWITNESS
ACCOUNTSOF A MASS FIRE (U), 65 P., (U)

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MAD698135

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MAD701956
ADNO: AD 701956
AUTH: LEE B.T.
CLSS: U
CONN: DAHC 20-67-C-0149
CORP: NAVAL RADIOLOGICAL DEFENSE LAB (SAN FRANCISCO CA)
DATE: 6905
TITL: MASS FIRE SCALING WITH SMALL ELECTRICALLY HEATED MODELS (U), 58 P.,
(U)

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MAD701956

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copy: 1 id: 86165-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MAD703566
ADNO: AD 703566
AUTH: BRODE H.L.
CLSS: U
CORP: RAND CORP (SANTA MONICA CA)
DATE: 7003
REPN: P 4335
TITL: GENERAL PROGRAM FOR RADIATION AND HYDRODYNAMIC FLOW IN ONE DIMENSION
(U), 9 P., (U)

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MAD703566

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copy: 1 id: 86175-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: MAD853986
ADNO: AD 853986
AUTH: GERMAS J.E. ; KAPLAN S.J. ; DE HAAN H.
CLSS: U
CORP: ARMY/RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA-MD)
DATE: 6901
REPN: AFRRI SR 69 2 MAS
TITL: VISUAL DISCRIMINATION PERFORMANCE IN THE MONKEY FOLLOWING A 10,000
RAD PULSE OF MIXED GAMMA-NEUTRON RADIATION (U), 18 P (U)

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MAD853986

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copy: 1 id: 86573-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: MAD859410
AUTH: BROEKSTRA G.
CLSS: U
CORP: DEFENSE RESEARCH ESTABLISHMENT (SUFFIELD RALSTON ALBERTA)
DATE: 6902
LA: CANADA
REPN: DRES MEMO 16/69
TITL: HIGH FREQUENCY ELECTRO-MAGNETIC RADIATION (U), CA. 12 P., (U)

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MAD859410

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copy: 1 id: 86596-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: MAD860337L
ADNO: AD 860337L
AUTH: KALINOWSKI J.J. ; THATCHER R.K.
CLSS: U
CONN: DASA 01 68 C 0067
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS-OH)
DATE: 6909
TITL: TREE (TRANSIENT-RADIATION EFFECTS ON ELECTRONICS)HANDBOOK (U),
EDITION 2, REVISION 2, 505 P, (U)

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MAD860337L

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copy: 1 id: 86603-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: MARLV3513
AUTH: ARMSTRONG R.H. ; MORRELL J.R.
CLSS: U
CONN: SF 54-351
CORP: ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION/AIR RESOURCES LAB (LAS
VEGAS NEV)
DATE: 6912
REPN: ARLV 351 3
TITL: WEATHER PREDICTIONS AND SURFACE RADIATION ESTIMATES FOR THE MILROW
EVENT (U), CA. 55 P., (U)

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MARLV3513

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copy: 1 id: 87267-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: MARLV3514
AUTH: STOUT A.H. ; WHITE R.E. ; QUINN V.E.
CLSS: U
CONN: SF-54-351, JANUARY 1970
CORP: ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION/AIR RESOURCES LAB (LAS
VEGAS NEV)
DATE: 7001
REPN: ARLV 351 R
TITL: WEATHER PREDICTIONS AND SURFACE RADIATION ESTIMATES FOR THE RULISON
EVENT (U),62 P., (U)

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copy: 1 id: 87268-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: MBMI17132V1
AUTH: LOWMAN F.G. ; MARTIN J.H. ; TING R.Y. ; BARNES S.S. ; SWIFT D.J.P. ;
SEIGLIE G.A. ; PIRIE R.G. ; DAVIS R. ; SANTIAGO R.J. ; MCCLIN
ESCALERA R. ; GORDON A.G. ; TELEK G. ; BESSELIEVRE H.L. ; MCCANDLESS
J.B.
CLSS: U
CONN: AT (26 1) 171
CORP: PUERTO RICO NUCLEAR CENTER (MAYAGUEZ, PUERTO RICO)
DATE: 7006
REPN: BMI 171 32 VOL. 1
TITL: ESTUARINE AND MARINE ECOLOGY; VOL. 1, FINAL REPORT AND APPENDIX A;
BIOENVIRONMENTAL AND RADIOLOGICAL-SAFETY FEASIBILITY STUDIES

ATLANTIC-PACIFIC INTEROCEANIC CANAL (U), 143 P., (U)

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MBMI17132V1

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copy: 1 id: 87309-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: MBMI17132V2

AUTH: LOWMAN F.G. ; MARTIN J.H. ; TING R.Y. ; BARNES S.S. ; SWIFT D.J.P. ;
SEIGLIE G.A. ; PIRIE R.G. ; DAVIS R. ; SANTIAGO R.J. ; MCLIN
ESCALERA R. ; GORDON A.G. ; TELEK G. ; BESSELIEVRE H.L. ; MCCANDLESS
J.B.

CLSS: U

CONN: AT (26 1) 171

CORP: PUERTO RICO NUCLEAR CENTER (MAYAGUEZ, PUERTO RICO)

DATE: 7006

REPN: BMI 171 32 VOL. 2

TITL: ESTUARINE AND MARINE ECOLOGY; VOL. 2, APPENDIXES B THROUGH E;
BIOENVIRONMENTAL AND RADIOLOGICAL-SAFETY FEASIBILITY STUDIES
ATLANTIC-PACIFIC INTEROCEANIC CANAL (U), 240 P., (U)

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copy: 1 id: 87310-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MBMI17132V3

AUTH: LOWMAN F.G. ; MARTIN J.H. ; TING R.Y. ; BARNES S.S. ; SWIFT D.J.P. ;
SEIGLIE G.A. ; PIRIE R.G. ; DAVIS R. ; SANTIAGO R.J. ; MCCLIN
ESCALERA R. ; GORDON A.G. ; TELEK G. ; BESSELIEVRE H.L. ; MCCANDLESS
J.B.

CLSS: U

CONN: AT (261) 171

CORP: PUERTO RICO NUCLEAR CENTER (MAYAGUEZ, PUERTO RICO)

DATE: 7006

REPN: BMI 171 32 VOL. 3

TITL: ESTUARINE AND MARINE ECOLOGY; VOL. 3, APPENDIX F; BIO-ENVIRONMENTAL
AND RADIOLOGICAL-SAFETY FEASIBILITY STUDIES ATLANTIC-PACIFIC
INTEROCEANIC CANAL (U), 233 P., (U)

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MBMI17132V3

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copy: 1 id: 87311-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: MBMI17132V4
AUTH: LOWMAN F.G. ; MARTIN J.H. ; TING R.Y. ; BARNES S.S. ; SWIFT D.J.P. ;
SEIGLIE G.A. ; PIRIE R.G. ; DAVIS R. ; SANTIAGO R.J. ; MCCLIN
ESCALERA R. ; GORDON A.G. ; TELEK G. ; BESSELIEVRE H.L. ; MCCANDLESS
J.B.

CLSS: U
CONN: AT (26 1) 171
CORP: PUERTO RICO NUCLEAR CENTER (MAYAGUEZ, PUERTO RICO)
DATE: 7006
REPN: BMI 171 32 VOL. 4
TITL: ESTUARINE AND MARINE ECOLOGY; VOL. 4, APPENDIXES G THROUGH N;
BIOENVIRONMENTAL AND RADIOLOGICAL-SAFETY FEASIBILITY STUDIES
ATLANTIC-PACIFIC INTEROCEANIC CANAL (U), 283 P., (U)

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MBMI17132V4

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copy: 1 id: 87312-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MBMI17139
AUTH: TORRES DE ARAUZ R.
CLSS: U
CONN: AT (26-1)-171
CORP: BATTELLE MEMORIAL INSTITUTE/COLUMBUS LABS (COLUMBUS OHIO)
DATE: 7006
REPN: BMI 171 39
TITL: HUMAN ECOLOGY OF ROUTE 17 (SASARDI-MORTI) REGION, DARIEN, PANAMA,
BIOENVIRONMENTAL AND RADIOLOGICAL-SAFETY REASIBILITY STUDIES
ATLANTICPACIFIC INTEROCEANIC CANAL (U), 199 P., (U)

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MBMI17139

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copy: 1 id: 87313-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MBMI17145
AUTH: LEVIN A.A. ; BLOOM S.G. ; MARTIN W.E. ; RAINES G.E.
CLSS: U
CONN: AT (26-1)-171
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS OHIO)
DATE: 7009
REPN: BMI 171 45
TITL: ESTIMATION OF POTENTIAL RADIONUCLIDE INGESTION BY NATIVE POPULATIONS
OF EASTERN PANAMA AND NORTHWESTERN COLUMBIA. BIOENVIRONMENTAL AND
RADIOLOGICAL-SAFETY FEASIBILITY STUDIES, ATLANTIC-PACIFIC
INTEROCEANIC CANAL (U), 73 P., (U)

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MBMI17145

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copy: 1 id: 87314-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: MBMI171118

ABS: ALASKA; ENVIRONMENT; FALLOUT; MAMMALS; MATHEMATICS; MOCKUP; NUCLEAR
EXPLOSIONS; POPULATIONS; RADIATION DOSES; RADIOISOTOPES; TRANSPORT

AUTH: RAINES G.E. ; BLOOM S.G.

CLSS: U

CONN: AT (26-1) 171

CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS OHIO)

DATE: 6902

REPN: BMI 171 118

TITL: SIMULATION STUDIES AS RELATED TO THE ECOLOGICAL EFFECTS OF
UNDERGROUND TESTING OF NUCLEAR DEVICES ON AMCHITKA ISLAND, ANNUAL
PROGRESS REPORT (U), 50 P., (U)

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MBMI171118

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copy: 1 id: 87300-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: MBNWLSA329

AUTH: CUSHING C.E.

CLSS: U

CONN: AT (45 1) 1830

CORP: BATTELLE-NORTHWEST, PACIFIC NORTHWEST LAB (RICHLAND WASH)

DATE: 7005

REPN: BNWL SA 3291

TITL: RADIATION ECOLOGY IN FRESHWATER COMMUNITIES (U), 17 P., (U)

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MBNWLSA329

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copy: 1 id: 87323-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: MN36358

AUTH: HOERNQVIST N.

CLSS: U

CORP: RESEARCH INSTITUTE OF NATIONAL DEFENCE (STOCKHOLM, SWEDEN)

DATE: 7001

REPN: FOA 4 C 4411 25

TITL: PROPAGATION OF THERMAL RADIATION FRONTS FROM AN EXPONENTIAL ENERGY
SOURCE (U), 20 P., (U)

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MN36358

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copy: 1 id: 87655-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MNVO2941

CLSS: U

CONN: AT (26-1)-294

CORP: EBERLINE INSTRUMENT CORP (SANTA FE NM)

DATE: 6908

REPN: NVO 294 1

TITL: PROJECT GASBUGGY ON SITE RADIOLOGICAL SAFETY AND MEDICAL SUPPORT
SERVICES OCTOBER 11, 1967 TO JANUARY 14, 1968 (U), 37 P., (U)

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MNVO2941

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copy: 1 id: 87819-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MNVO2944

CLSS: U

CORP: EBERLINE INSTRUMENT CORP (SANTA FE NM)

DATE: 7004

REPN: NVO 294 4

TITL: PROJECT RULISON. ON-SITE RADIOLOGICAL SAFETY REPORT, APRIL 21
DECEMBER 31, 1969 (U), 17 P., (U)

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MNVO2944

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copy: 1 id: 87820-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MPB185513

AUTH: BURSON Z.G.

CLSS: U

CORP: EG+G (LAS VEGAS NEV)

DATE: 6905

REPN: EGG 1183 1436 ; TECH. REPT. L 939

TITL: EXPERIMENTAL EVALUATION OF THE FALLOUT RADIATION PROTECTION PROVIDED
BY STRUCTURES IN THE CONTROL POINT AREA OF THE NEVADA TEST SITE (U),
139 P., (U)

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MPB185513

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copy: 1 id: 87893-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: MPB187251
AUTH: WHIPPLE G.H.
CLSS: U
CORP: BUREAU OF RADIOLOGICAL HEALTH (ROCKVILLE-MD)
DATE: 6900
REPN: PB 187 251
TITL: APPROACHES TO THE CALCULATION OF LIMITATIONS ON NUCLEAR DETONATIONS
FOR PEACEFUL PURPOSES (U), 10 P, SEMINAR PAPER, (U)

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MPB187251

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copy: 1 id: 87895-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: MPB187349
ADNO: PB 187349
CLSS: U
CORP: SOUTHWESTERN RADIOLOGICAL HEALTH LABORATORY (LAS VEGAS-NV)
DATE: 6904
REPN: SWRHL 82 ; PB 187349
TITL: PROCEEDINGS FOR THE SYMPOSIUM ON PUBLIC HEALTH ASPECTS OF PEACEFUL
USES OF NUCLEAR EXPLOSIVES (U), APRIL 7-11 1969, 874 P, (U)

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MPB187349

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copy: 1 id: 87896-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: MPNEG46
AUTH: MCBRIDE J.R. ; HILL D.
CLSS: U
CORP: PUBLIC HEALTH SERVICE/BUREAU OF RADIOLOGICAL HEALTH (LAS VEGAS-NV)
DATE: 6906
REPN: SF 54 373
TITL: OFF-SITE RADIOLOGICAL SURVEILLANCE PROGRAM FOR PROJECT GASBUGGY (U),
26 P, (U)

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MPNEG46

.endblock

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copy: 1 id: 87979-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MSWRHL47R
CLSS: U
CORP: PUBLIC HEALTH SERVICES/SOUTHWESTERN RADIOLOGICAL HEALTH LAB (LAS
VEGAS NEV)
DATE: 7003
REPN: SWRHL 47 R
TITL: OFF-SITE SURVEILLANCE ACTIVITIES OF THE SOUTHWESTERN RADIOLOGICAL
HEALTH LABORATORY FROM JANUARY THROUGH JUNE 1967 (U), 121 P., (U)

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MSWRHL47R

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copy: 1 id: 88157-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MSWRHL75R
AUTH: JAMES R.H. ; MCNELIS D.N. ; WHITTAKER E.L. ; KENNEDY N.C.
CLSS: U
CORP: PUBLIC HEALTH SERVICES/SOUTHWESTERN RADIOLOGICAL HEALTH LAB (LAS
VEGAS NEV)
DATE: 7002
REPN: SWRHL-75-R
TITL: AEROSOL PREPARATION, GENERATION, AND ASSESSMENT, PROJECT HARE (U) 22
P., (U)

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MSWRHL75R

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copy: 1 id: 88159-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MSWRHL92R
AUTH: GROSSMAN R.F.
CLSS: U
CORP: PUBLIC HEALTH SERVICE/SOUTHWESTERN RADIOLOGICAL HEALTH LAB (LAS
VEGAS NEV)
DATE: 7008
REPN: SWRHL 92 R
TITL: SUMMARY OF HYPOTHETICAL WHOLE-BODY GAMMA EXPOSURES AND INFANT
THYROID DOSES RESULTING OFF-SITE FROM PROJECT ROVER NUCLEAR REACTOR/
ENGINE TESTS AT THE NUCLEAR ROCKET DEVELOPMENT STATION (U), 19 P.,
(U)

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MSWRHL92R

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copy: 1 id: 88160-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
.endblock

INUM: MSWRHL94R
CLSS: U
CORP: PUBLIC HEALTH SERVICE/SOUTHWESTERN RADIOLOGICAL HEALTH LAB (LAS
VEGAS NEV)
DATE: 7001
REPN: SWRL 94 R
TITL: OFF-SITE RADIOLOGICAL SAFETY AND RESIDENT EVACUATION PROGRAM FOR
PROJECT RULISON (DETONATION PHASE) (U), 69 P., (U)

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MSWRHL94R

.endblock

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copy: 1 id: 88161-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: MSWRHL95R
CLSS: U
CORP: PUBLIC HEALTH SERVICE/SOUTHWESTERN RADIOLOGICAL HEALTH LAB (LAS
VEGAS NEV)
DATE: 7006
REPN: SWRHL 59 R
TITL: FINAL REPORT OF OFF-SITE SURVEILLANCE FOR THE MILROW EVENT, OCTOBER
2, 1969 (U), 22 P., (U)

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MSWRHL95R

.endblock

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copy: 1 id: 88162-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: MSWRHL96
AUTH: EVANS R.B. ; BERNHARDT D.E.
CLSS: U
CORP: PUBLIC HEALTH SERVICE/SOUTHWESTERN RADIOLOGICAL HEALTH LAB (LAS
VEGAS NEV)
DATE: 7008
REPN: SWRHL 96
TITL: PUBLIC HEALTH EVALUATION. PROJECT RULISON (PRODUCTION TESTING) (U),
87 P., (U)

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MSWRHL96

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: MSWRHL100R
CLSS: U
CORP: PUBLIC HEALTH SERVICE/SOUTHWESTERN RADIOLOGICAL HEALTH LAB (LAS
VEGAS NEV)
DATE: 7006
REPN: SWRHL 200 R
TITL: ENVIRONMENTAL SURVEILLANCE FOR PROJECT GASBUGGY PRODUCTION TEST
PHASE (U), 39 P., (U)

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MSWRHL100R

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copy: 1 id: 88156-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL10459
AUTH: BOULON M. ; GAUTIER J.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7003
REPN: UCRL TRANS 10459
TITL: INTEGRATED STUDY OF BLAST-CRATER DIMENSIONS (U), 45 P., (U)

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MUCRL10459

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copy: 1 id: 88384-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MUCRL10475
AUTH: IZRAEL Y.A.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7000
REPN: UCRL TRANS 10475
TITL: RADIOACTIVITY IN CONTAINED UNDERGROUND NUCLEAR EXPLOSIONS (U), 10
P., (U)

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MUCRL10475

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MUCRL10476
AUTH: RODINOV V.N.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)

DATE: 7000
REPN: UCRL TRANS 10476
TITL: METHODS OF MODELING EJECTION WITH CONSIDERATION OF THE FORCE OF GRAVITY (U), 13 P., (U)

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MUCRL10476

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL10477
AUTH: KEDROVSKII O.L.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7000
REPN: UCRL TRANS 10477 ; CONF 700305 6
TITL: PROSPECTIVE APPLICATIONS OF UNDERGROUND NUCLEAR EXPLOSIONS IN THE NATIONAL ECONOMY OF THE USSR (U), 48 P., (U)

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MUCRL10477

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MUCRL12065
AUTH: HEARST J.R. ; CHERRY T.J. ; BROWN S.R.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7004
REPN: UCRL 12065 (PT. 3)
TITL: LABORATORY VERIFICATION OF EXPLOSION CALCULATIONS, PART 3-GROUT, A ROCKLIKE LOCKING SOLID (U), 19 P., (U)

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MUCRL12065

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copy: 1 id: 88405-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL50163
AUTH: PRATT M.W.
CLSS: U
CORP: CALIFORNIA UNIVERSITY/LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7000
REPN: UCRL 50163 (PT. 7)
TITL: PREDICTION OF THE DOSAGE FROM THE FALLOUT OF NUCLEAR DEVICES,

VII-ESTIMATION OF THE MAXIMUM DOSE RATE FROM THE CONTINUOUS RELEASE
OF RADIONUCLIDES TO THE BIOSPHERE (U), 77 P., (U)

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MUCRL50163

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL50586

AUTH: WILLIAMS R.T.

CLSS: U

CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)

DATE: 6902

REPN: UCRL 50586

TITL: DEPLOYMENT HANDBOOK FOR THE CLEANSWEEP IIIB ROCKET SAMPLING SYSTEM
(U), 141 P., (U)

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MUCRL50586

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copy: 1 id: 88439-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL50596

AUTH: HARRISON F.L.

CLSS: U

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)

DATE: 6902

REPN: UCRL 50596

TITL: RADIOACTIVE DEBRIS FROM UNDERGROUND NUCLEAR EXPLOSIONS. I. PHYSICAL
AND CHEMICAL CHARACTERISTICS. 2. BIOLOGICAL AVAILABILITY (U), 28 P,
(U)

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MUCRL50596

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copy: 1 id: 88440-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL50631

AUTH: DE LALLA O.F.

CLSS: U

CORP: LAWRENCE RADIATION LAB

DATE: 6908

REPN: UCRL 50631

TITL: PALANQUIN EVENT. QUANTITATIVE POSTSHOT DISTRIBUTION OF CLOSE-IN
FALLOUT, THROWOUT, AND BASE SURGE (U), 21 P., (U)

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MUCRL50631

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL50633

AUTH: ONAKA W.T.

CLSS: U

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)

DATE: 6904

REPN: UCRL 50633

TITL: TELEMETRY SYSTEM FOR MONITORING GAMMA RADIATION IN PLOWSHARE
EXPERIMENTS (U), CIRCA 20 P, (U)

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MUCRL50633

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL50634

AUTH: SMITH C.F.

CLSS: U

CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)

DATE: 6904

REPN: UCRL 50634

TITL: NONGASEOUS RADIOISOTOPES. PROJECT GASBUGGY CHIMNEY GAS (U), 8 P.,
(U)

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MUCRL50634

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copy: 1 id: 88444-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MUCRL50635

AUTH: SMITH C.F.

CLSS: U

CONN: W 7405 ENG 48

CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)

DATE: 6900

REPN: UCRL 50635

TITL: PROJECT GASBUGGY GAS QUALITY ANALYSIS AND EVALUATION PROGRAM
TABULATION OF RADIOCHEMICAL AND CHEMICAL ANALYTICAL RESULTS (U), 19
P., (U)

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MUCRL50635

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MUCRL50658

ADNO: UCRL 50658

AUTH: NORDYKE M.D. ; LUNDBERG A.W. ; RAGSDALE W.F.

CLSS: U

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)

DATE: 6906

REPN: UCRL 50658

TITL: PLOWSHARE STREAMLINED OPERATIONAL SYSTEM (U), 13 P, (U)

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MUCRL50658

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MUCRL50664

AUTH: EDWARDS A.L.

CLSS: U

CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)

DATE: 6905

REPN: UCRL 50664

TITL: TRUMP COMPUTER PROGRAM. CALCULATION OF TRANSIENT LAMINAR FLUID FLOW
IN POROUS MEDIA (U), 39 P., (U)

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MUCRL50664

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copy: 1 id: 88448-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL50693

AUTH: MAY M.M.

CLSS: U

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)

DATE: 6906

REPN: UCRL 50693

TITL: PUBLIC CORPORATION FOR PLOWSHARE (U), 9 P, (U)

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MUCRL50693

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: MUCRL50723
AUTH: ALGAZI V.R.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 6907
REPN: UCRL 50723
TITL: NOISE ANALYSIS IN A SINGLE-TRANSIENT DIAGNOSTIC SYSTEM (U), 19 P.,
(U)

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MUCRL50723

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: MUCRL50743
AUTH: CRAMER J.L. ; PETERSON M.G.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 6909
REPN: UCRL 50743
TITL: TYPICAL REQUIREMENTS, STANDARDS, AND PROCEDURES FOR PLOWSHARE
NUCLEAR UNDERGROUND ENGINEERING PROJECTS (U), 38 P., (U)

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MUCRL50743

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: MUCRL50750
AUTH: SCHOCK R.N. ; LOUIS H. ; LILLEY E.M.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 6909
REPN: UCRL 50750
TITL: DETERMINATION OF ACOUSTIC VELOCITIES AND DYNAMIC ELASTIC MODULI IN
ROCKS UNDERPRESSURE (U), 38 P., (U)

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MUCRL50750

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: MUCRL50763
AUTH: ROBERTS J.E.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 6911
REPN: UCRL 50763
TITL: SPECTRAL COMPOSITION OF SEISMIC SOURCE FUNCTIONS ASSOCIATED WITH
SOME REPRESENTATIVE NUCLEAR DETONATIONS (U), 186 P., (U)

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MUCRL50763

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copy: 1 id: 88453-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL50765
AUTH: STERRETT T.S.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 6911
REPN: UCRL 50765
TITL: DRILLING INVESTIGATION OF THE LOWER PART OF THE PILEDRIER CAVITY
(U), 20 P., (U)

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MUCRL50765

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MUCRL50783
AUTH: QUONG R.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 6911
REPN: UCRL 50783
TITL: PERMEABILITY INCREASES IN HARDHAT GRANODIORITE SAMPLES FRACTURED BY
EXPLODING FOILS (U), 10 P., (U)

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MUCRL50783

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL50790
AUTH: CRAWFORD T.V.
CLSS: U

CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7001
REPN: UCRL 50790
TITL: CALCULATING EXPOSURES AT LONG DISTANCES FROM NUCLEAR-CRATERING
APPLICATIONS (U), 35 P., (U)

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MUCRL50790

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL50801
AUTH: BARR L.K.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7001
REPN: UCRL 50801
TITL: DESCRIPTION OF THE TENSOR-PUFL FORTRAN PROGRAM (U), 16 P., (U)

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MUCRL50801

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MUCRL50802
AUTH: BARR L. ; REED E.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7001
REPN: UCRL 50802
TITL: DESCRIPTION OF THE PUFL FORTRAN PROGRAM (U), 38 P., (U)

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MUCRL50802

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copy: 1 id: 88458-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL50812
AUTH: KORVER J.A.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7003
REPN: UCRL 50812
TITL: GASBUGGY POSTSHOT HYDROLOGIC INVESTIGATIONS IN GB-3 (U), 18 P., (U)

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MUCRL50812
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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: MUCRL50820
AUTH: KORVER J.A.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7002
REPN: UCRL 50820

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MUCRL50820
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copy: 1 id: 88460-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: MUCRL50828
AUTH: KORVER J.A.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7002
REPN: UCRL 50828

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MUCRL50828
.endblock
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copy: 1 id: 88461-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: MUCRL50830
AUTH: KORVER J.A.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7003
REPN: UCRL 50830
TITL: T-WAVE. A COMPUTER CODE FOR ANALYZING THE NONSTEADY GRAVITY DECAY OF
A GROUND-WATER ANOMALY (U), 59 P., (U)

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MUCRL50830
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copy: 1 id: 88462-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: MUCRL50844
AUTH: GUDIENSEN P.H.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7005
REPN: UCRL 50844
TITL: MASS CONCENTRATIONS AND PARTICLE SIZE DISTRIBUTIONS AS A FUNCTION OF
TIME WITHIN A NUCLEAR CRATERING CLOUD, FINAL REPORT (U), 20 P., (U)

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MUCRL50844

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MUCRL50853
AUTH: HIGGINS G.H.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7004
REPN: UCRL 50853
TITL: SUMMARY OF NUCLEAR EXPLOSION DATA FOR UNDERGROUND ENGINEERING
APPLICATIONS (U), 8 P., (U)

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MUCRL50853

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copy: 1 id: 88464-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MUCRL50855
AUTH: HEARST J.R. ; CARLSON R.C. ; RAMBO J.T.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7004
REPN: UCRL 50855
TITL: K-DIVISION EXPERIMENTAL WORK, PART 1-GEOPHYSICS RESEARCH FOR
UNDERGROUND EXPLOSION TECHNOLOGY (U), 172 P., (U)

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MUCRL50855

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MUCRL50858
AUTH: STEPHENS D.R. ; HEARD H.C. ; SCHOCK R.N.
CLSS: U

CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7004
REPN: UCRL 50858
TITL: HIGH-PRESSURE MECHANICAL PROPERTIES OF TUFF FROM THE DIAMOND DUST
SITE (U), 17P., (U)

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MUCRL50858

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copy: 1 id: 88466-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MUCRL50863
AUTH: HOLL P.M. ; KOPYTOFF V.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7004
REPN: UCRL 50863
TITL: DESIGN OF A 36-INCH MITER VALVE (U), 14 P., (U)

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MUCRL50863

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copy: 1 id: 88467-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL50865
AUTH: BORG I.Y.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7004
REPN: UCRL 50865
TITL: SURVEY OF PILEDRIVER RESULTS AND PRELIMINARY INTERPRETATION OF THREE
POSTSHOT CORES IN AND NEAR THE CAVITY (U), 67 P., (U)

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MUCRL50865

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL50867
AUTH: BLAKE A. ; DOW J.P.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7009
REPN: UCRL 50867
TITL: ANALYSIS OF STRUCTURAL RESPONSE DATA ON BURIED STRUCTURES IN THE

NOGGIN AND CREW UNDERGROUND NUCLEAR TESTS (U), 61 P., (U)

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MUCRL50867

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created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL50893

AUTH: BORG I.Y.

CLSS: U

CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)

DATE: 7006

REPN: UCRL 50893

TITL: MICROFRACTURING IN POSTSHOT GASBUGGY CORE GB-3 (U), 16 P., (U)

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INUM: MUCRL50897

AUTH: STUBBS T.F. ; CROWLEY B.K.

CLSS: U

CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)

DATE: 7006

REPN: UCRL 50897

TITL: CALCULATIONS OF FLUID STEMMING BEHAVIOR FOR CRATERING EXPERIMENTS
(U), 13 P., (U)

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MUCRL50897

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created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL50898

AUTH: TERHUNE R.W. ; STUBBS T.F. ; CHERRY J.T.

CLSS: U

CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)

DATE: 7007

REPN: UCRL 50898

TITL: NUCLEAR CRATERING ON A DIGITAL COMPUTER (U), 29 P., (U)

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MUCRL50898

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created: 12/27/1991 type: REPORT permanent
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INUM: MUCRL50915
AUTH: RAMSPOTT L.D. ; BRAUN R.L. ; WADLEIGH W.F.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7000
REPN: UCRL 50915
TITL: MINERAL COMPOSITION, CO-2 CONTENT AND GRAIN DENSITY OF DRILL HOLE
SAMPLES FROM YUCCA FLAT, NEVADA TEST SITE (U), 15 P., (U)

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MUCRL50915

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created: 12/27/1991 type: REPORT permanent
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INUM: MUCRL50929
AUTH: BUTKOVICH R.R. ; LEWIS A.E.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7009
REPN: UCRL 50929
TITL: AIDS FOR ESTIMATING EFFECTS ON UNDERGROUND NUCLEAR EXPLOSIONS (U),
114 P., (U)

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MUCRL50929

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INUM: MUCRL50940
AUTH: GARCIA W.J.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7010
REPN: UCRL 50940
TITL: WATER WAVES PRODUCED BY CRATERING EXPLOSIONS IN SHALLOW WATER (U), 7
P., (U)

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MUCRL50940

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL50946
AUTH: QUONG R. ; LAGUARDIA V.J.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7010
REPN: UCRL 50946
TITL: PERMEABILITY OF PICTURED CLIFFS SANDSTONE. GASBUGGY PRESHOT AND
POSTSHOT MEASUREMENTS (U), 16 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL50951
AUTH: WERTH G.C.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7010
REPN: UCRL 50951
TITL: HANDCAR NUCLEAR EXPLOSION IN DOLOMITE (U), 50 P., (U)

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INUM: MUCRL50959
AUTH: RIZER G.C.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7010
REPN: UCRL 50959
TITL: METHOD OF PREDICTING SEISMIC DAMAGE TO RESIDENTIAL-TYPE STRUCTURES
FROM UNDERGROUND NUCLEAR EXPLOSIONS (U), 14 P., (U)

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MUCRL50959

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created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL50973
AUTH: WEAVER H.J., JR.

CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7012
REPN: UCRL 50973
TTTL: RESPONSE OF A RIGID BODY WITH SIX DEGREES OF FREEDOM ON NONLINEAR
SUPPORTS SUBJECTED TO GROUND SHOCK FROM AN UNDERGROUND NUCLEAR
DETONATION (U), 17 P., (U)

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MUCRL50973

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL50979
AUTH: RAWSON D.E. ; BORG I.Y.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7011
REPN: UCRL 50979
TTTL: RESULTS OF POSTSHOT EXPLORATION OF THE GREELEY EVENT (U), 31 P., (U)

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MUCRL50979

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created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL50987
AUTH: CHERRY J.T. ; SACK S. ; MENCHEN G. ; KRANSKY V.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7012
REPN: UCRL 50987
TTTL: TWO-DIMENSIONAL ADIABATIC FLOW (U), 62 P., (U)

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MUCRL50987

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created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL71774
AUTH: FLETCHER J.G.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 6906
REPN: UCRL 71774

TITL: LAWRENCE RADIATION LABORATORY OCTOPUS SYSTEM (U), 8 P., (U)

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MUCRL71774

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL71824

AUTH: HOLLADAY G. ; BISHOP S. PHELPS P. ; ANSPAUGH L.

CLSS: U

CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)

DATE: 6911

REPN: UCRL 71824

TITL: SYSTEM FOR THE MEASUREMENT OF DEPOSITION AND RESUSPENSION OF
RADIOACTIVE PARTICULATE RELEASED FROM PLOWSHARE CRATERING EVENTS
(U), 19 P., (U)

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MUCRL71824

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL71827

AUTH: BERMAN B.L. ; FULTZ S.C. ; CALDWELL J.T. ; KELLY M.A.

CLSS: U

CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)

DATE: 6906

REPN: UCRL 71827

TITL: PHOTONEUTRON CROSS SECTIONS FOR BA-138 AND N-14 (U), 7 P., (U)

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MUCRL71827

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created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL71868

AUTH: SHERWOOD A.E.

CLSS: U

CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)

DATE: 6907

REPN: UCRL 71868

TITL: TRANSIENT FLOW IN A GAS RESERVOIR STIMULATED BY A NUCLEAR EXPLOSION.
PROJECT GASBUGGY (U), 47 P., (U)

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MUCRL71868

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created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL72087

AUTH: WETHINGTON J.A.

CLSS: U

CORP: LAWRENCE RADIATION LAB

DATE: 6910

REPN: UCRL 72087

TITL: POSSIBLE TECHNIQUES FOR DECONTAMINATION OF NATURAL GAS FROM GAS
WELLS STIMULATED BY A NUCLEAR EXPLOSION (U), 8 P., (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL72122

AUTH: BERNREUTER D.L. ; JACKSON E.C. ; MILLER A.B.

CLSS: U

CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)

DATE: 6912

REPN: UCRL 72122

TITL: CONTROL OF THE DYNAMIC ENVIRONMENT PRODUCED BY UNDERGROUND NUCLEAR
EXPLOSIVES (U), 17 P., (U)

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MUCRL72122

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL72152

AUTH: SMITH C.F.

CLSS: U

CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)

DATE: 6912

REPN: UCRL 72152

TITL: BEHAVIOR OF RADIONUCLIDES IN NUCLEAR GAS STIMULATION TECHNIQUES (U),
15 P., (U)

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MUCRL72152

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created: 12/27/1991 type: REPORT permanent
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INUM: MUCRL72153
AUTH: SMITH C.F.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 6912
REPN: UCRL 72152
TITL: GAS QUALITY ANALYSIS AND EVALUATION PROGRAM FOR PROJECT GASBUGGY
(U), 19 P., (U)

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MUCRL72153

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: MUCRL72164
AUTH: HEARD HUGH C.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 6912
REPN: UCRL 72164
TITL: INFLUENCE OF ENVIRONMENT ON THE INELASTIC BEHAVIOR OF ROCKS (U), 15
P., (U)

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MUCRL72164

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: MUCRL72175
AUTH: HOLZER A.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7001
REPN: UCRL 72175
TITL: GASBUGGY IN PERSPECTIVE (U), 40 P., (U)

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MUCRL72175

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: MUCRL72261
AUTH: STEFANI R.E.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7001
REPN: UCRL 72261
TITL: LRL WEAPONS TEST PROGRAM COMMUNICATION SYSTEMS (U), 35 P., (U)

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MUCRL72261

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL72332
AUTH: NORDYKE M.D.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7002
REPN: UCRL 72332
TITL: TECHNICAL STATUS SUMMARY OF PEACEFUL USES FOR NUCLEAR EXPLOSIVES
(U), 79 P., (U)

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MUCRL72332

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL72568
AUTH: NORDYKE M.D.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7011
REPN: UCRL 72568
TITL: USE OF MULTIPLE EXPLOSIVES FOR NUCLEAR GAS STIMULATION (U), 30 P.,
(U)

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MUCRL72568

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL72572
AUTH: MARTIN J.R. ; KORANDA J.J.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)

DATE: 7011
REPN: UCRL 72572 ; CONF 701102 18
TITL: DISTRIBUTION RESIDENCE TIME, AND INVENTORY OF TRITIUM IN SEDAN
CRATER EJECTA (U), 22 P., (U)

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MUCRL72572

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created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL72769
AUTH: NORDYKE M.D.
CLSS: U
CORP: LAWRENCE RADIATION LAB. (LIVERMORE,)
DATE: 7012
REPN: UCRL72769
TITL: UNDERGROUND ENGINEERING APPLICATIONS, CONCEPTS, AND EXPERIENCE (U),
61 P., (U)

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MUCRL72769

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL72912
AUTH: CROWLEY B.K. ; GLENN H.D.
CLSS: U
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7012
REPN: UCRL 72912 ; CONF 710719 1
TITL: MARVAL A NUCLEAR SHOCK TUBE (U), 12 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: PEP 3-1-01
ABS: Recent experiments conducted at Los Alamos Scientific Lab. on the
PHERMEX installation and analyzed with a Sandia Labs. computer
program indicate that the generally accepted bremsstrahlung
productin efficiency versus voltage curve needs corrections at
voltages above approximately 13 MeV. Analysis of the data shows that
electron beam divergence angles must be taken into account and
subsequently indicates that a 2-degree average beam divergence angle

exists on PHERMEX. When the beam divergence is eliminated the bremsstrahlung production efficiency curve can be represented by a relatively simple equation (see document for equation).

AUTH: Martin T.H.
CLSS: U
CORP: Sandia Lab. (Albuquerque, N.M.)
DATE: 6905
DESC: Cross Sections electron L1
DESC: EXPERIMENTAL
DESC: Simulation Facilities Techniques x-ray effects L1 PHERMEX
SUJO: 4-231-000 ; 9-850-000
SYMJ: Pulsed Electrical Power Radiation Production Notes; Vol. 1, Notes
1-13 (U)
TITL: Determination of Bremsstrahlung Production Efficiencies from Data
Obtained on PHERMEX at 27 MeV (U), 8 P., (U)

TREE: 414

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PEP 3-1-01

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: PEP 3-1-02

ABS: Many interesting phenomena occurring in the radiation output of large flash x-ray machines can be utilized only by understanding the action of the incident electron stream on the target. The detailed calculations required to understand these effects are best performed with a computer. This report explains the computer program utilized and tabulates the outputs obtained. The report also draws conclusions for future research, analysis and machine design. Interrelationships were developed between the switch rise time, the radiation pulse length, the dose expected at 1 meter, and the dose distribution.

AUTH: Martin T.H.
CLSS: U
CCDE: ZZ (FLASH X-RAY GENERATOR ANALYSIS)
CORP: Sandia Lab. (Albuquerque, N.M.)
DATE: 6905
DESC: Cross Sections electron L1
DESC: THEORY TABULAR CODE
DESC: Simulation Facilities Techniques x-ray effects L1
SUJO: 4-231-000 ; 9-850-000
SYMJ: Pulsed Electrical Power Radiation Production Notes; Vol. 1, Notes
1-13 (U)
TITL: Computerized Method of Predicting Electron Beam Bremsstrahlung
Radiation with Specific Application to High Voltage Flash X-ray
Machines (U), 36 P., (U)

TREE: 414

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PEP 3-1-02

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created: 12/27/1991 type: REPORT permanent

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INUM: PEP 3-1-03

ABS: The Hermes program produced significant information in the areas of Marx generator design, flash x-ray tube development, dielectric breakdown, and general flash x-ray machine design. As an outcome of the Hermes program, Hermes II was constructed and is the largest flash x-ray machine presently operating. This report summarizes the results of investigations in the areas mentioned and provides a general knowledge in the operation of megavolt flash x-ray machines which should be useful to the experimenters using these machines.

AUTH: Martin T.H. ; Prestwich K.R. ; Johnson D.L.

CLSS: U

CORP: Sandia Lab. (Albuquerque, NM)

DATE: 6910

DESC: EXPERIMENTAL

DESC: Simulation Facilities Techniques x-ray effects L1 HERMES II

SUJO: 4-231-000

SYMJ: Pulsed Electrical Power Radiation Production Notes; Vol. 1, Notes 1-13 (U)

TITL: Summary of the Hermes Flash X-ray Program (U), 38 P., (U)

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PEP 3-1-03

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created: 12/27/1991 type: REPORT permanent

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INUM: PEP 3-1-04

ABS: Methods for performing pulsed electron beam diagnostics are presented, and techniques for determining energy deposition profiles and beam energy density are discussed. The dosimetry materials and instrumentation employed in measurements of this type are treated in detail. In addition, techniques for the determination of electron beam pulse profile as well as differential energy spectrum are considered. Representative data, obtained using the above techniques to define the electron beam output of the Sandia Model 705 Febetron and Hermes I, are included.

AUTH: Buckalew W.H. ; Posey L.D.

CLSS: U

CORP: Sandia Lab. (Albuquerque, NM)

DATE: 6910

DESC: test instruments nuclear radiation beta electron beams L1

DESC: THEORY EXPERIMENTAL

DESC: Simulation Facilities Techniques x-ray effects L1

SUJO: 4-231-000 ; 4-344-000

SYMJ: Pulsed Electrical Power Radiation Production Notes; Vol. 1, Notes 1-13 (U)

TITL: Electron Beam Diagnostics, Part 1 (U), 114 P., (U)

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PEP 3-1-04

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created: 12/27/1991 type: REPORT permanent

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INUM: PEP 3-1-08

AUTH: Forster D.W.

CLSS: U

CORP: Atomic Weapons Research Establishment

DATE: 6901

DESC: SUMMARY

DESC: Simulation Facilities Techniques x-ray effects L1

LA: UK

SUJO: 4-231-000

SYMJ: Pulsed Electrical Power Radiation Production Notes; Vol. 1, Notes

1-13 (U)

TITL: Control of Energy Deposition Over Large Area Samples (U), 4 P., (U)

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PEP 3-1-08

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created: 12/27/1991 type: REPORT permanent

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INUM: PEP 3-1-09

AUTH: Forster D.W.

CLSS: U

CORP: Atomic Weapons Research Establishment

DATE: 7003

DESC: Simulation Facilities Techniques TREE L1

DESC: Simulation Facilities Techniques x-ray effects L1

DESC: THEORY

LA: UK

SUJO: 4-231-000 ; 4-272-000

SYMJ: Pulsed Electrical Power Radiation Production Notes; Vol. 1, Notes

1-13 (U)

TITL: Magnetic Pinching in Vacuum Diodes at Relativistic Electron Energies
(U), 5 P., (U)

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PEP 3-1-09

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created: 12/27/1991 type: REPORT permanent

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INUM: PEP 3-2-17
ABS: Calorimetry represents a reliable method of defining high-intensity electron beams associated with pulsed machines such as Hermes I and Hermes II. Described here are methods and techniques sufficient for the design of both linear array and total stopping calorimeters. Additionally, experimental data obtained on Hermes I are presented to demonstrate the utility of the method.
AUTH: Schulze J.F.
CLSS: U
CORP: Sandia Labs. (Albuquerque, N.M.)
DATE: 6906
DESC: EXPERIMENTAL
DESC: test instruments thermal temperature L1
SUJO: 4-384-000
SYMJ: Pulsed Electrical Power Radiation Production Notes; Vol. 2, Notes 14-27 (U)
TITL: Calorimeters for Measuring High-Energy, High-Intensity, Pulsed Electron Beams (U), 28 P., (U)

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PEP 3-2-17

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: PEP 3-2-18
AUTH: Fieldhouse P. ; Locke J.G. ; Sentance G.W. ; Simmons A.C. ; Large D.
CLSS: U
CORP: Atomic Weapons Research Establishment
DATE: 7004
DESC: Simulation Facilities Techniques x-ray effects L1 MINI-C
DESC: EXPERIMENTAL SUMMARY
LA: UK
SUJO: 4-231-000
SYMJ: Pulsed Electrical Power Radiation Production Notes; Vol. 2, Notes 14-27 (U)
TITL: Diagnostics on Mini-C Electron Beam (U), 7 P., (U)

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PEP 3-2-18

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: PEP 3-2-19
AUTH: Fieldhouse P. ; Large D.W. ; Morris E. ; Sentance G.W.
CLSS: U
CCDE: ETRAN (ELECTRON TRANSPORT)
CORP: Atomic Weapons Research Establishment
DATE: 7011

DESC: Simulation Facilities Techniques x-ray effects L1 EROS MINI-C
DESC: TABULAR
LA: UK
SUJO: 4-231-000
SYMJ: Pulsed Electrical Power Radiation Production Notes; Vol. 2, Notes
14-17 (U)
TTTL: Calculated Angular and Energy Distributions of Bremsstrahlung
Radiated by Mini-C and EROS Electrons (U), 9 P., (U)

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PEP 3-2-19

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created: 12/27/1991 type: REPORT permanent
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INUM: PEP 3-2-22

ABS: Observed operational characteristics of the high-field-emission diode of the Cornell Relativistic Electron Beam Accelerator are presented as functions of diode impedance over a range of cathode types, anode-cathode gap spacings, and vacuum pressures. Comparisons are made with expected predictions from the Child-Langmuir Law. Pin-hole, anode-plane radiographs are displayed, for a number of cathode designs, showing spatial current distribution and angular spread of electron trajectories. Preliminary studies of the time history of the current distribution in the anode-cathode gap are described. Results are presented in photographs obtained by fast-frame and time-integrated cameras.

AUTH: Clark J.J. ; Linke S.

CLSS: U

CORP: Cornell University

DATE: 6905

DESC: EXPERIMENTAL

DESC: Simulation Facilities Techniques TREE L1

SUJO: 4-272-000

SYMJ: Pulsed Electrical Power Radiation Production Notes; Vol. 2, Notes
14-27 (U)

TTTL: Beam Entrance Condition Studies (U), 21 P., (U)

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PEP 3-2-22

.endblock

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copy: 1 id: 50182-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: PEP 3-2-23

ABS: The transport of relativistic electron beams consisting of up to 500 keV electrons in tens of kiloampere currents has been examined in an introductory experiment with background air pressures of 0.1 to 2.0 torr. These beams were guided in 14 cm-diameter metal-mesh-lined lucite drift tubes, typically 6.4 meters long. Their properties were

determined through (1) time-resolved measurements of diode voltage and current, (b) x-rays from primary electrons hitting targets along the drift tube walls and at its end, (c) prompt visible light radiated from the beam system recorded in streak photography, and (d) magnetic fields of the total current within the drift tube.

Beam-transit times given by these measurements proved to be considerably longer than the straight-line transit of 300 keV electrons, especially at lower pressures.

ABS: The total current within the drift tube was found to be less than the injected primary electron current, indicating that a large return current was flowing in the beam-produced background plasma that partly canceled the beam current. In the streak photography a striation-like structure was recorded in the light output from the beam and the node-node distance separating these striations varied inversely as the pressure. The implications of these results on possible models for beam propagation are discussed.

AUTH: Andrews M.L. ; Bzura J.J. ; Davitian H.E. ; Fleischmann H.H. ; Hammer D.A. ; Vitkovitsky I.M. ; Levine L.S.

CLSS: U

CORP: Cornell University ; Naval Research Lab.

DATE: 6909

DESC: EXPERIMENTAL

DESC: Simulation Facilities Techniques x-ray effects L1

SUJO: 4-231-000

SYMJ: Pulsed Electrical Power Radiation Production Notes; Vol. 2, Notes 14-27 (U)

TITL: Initial Study on the Propagation of a High Current Relativistic Electron Beam (U), 26 P., (U)

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PEP 3-2-23

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copy: 1 id: 50183-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: PEP 3-2-24

ABS: Theoretical self-consistent beam models have been developed which allow the propagation of relativistic electron fluxes in excess of the Alfvén-Lawson critical-current limit for a fully neutralized beam. Development of a simple, fully relativistic, self-consistent equilibrium is described which can carry arbitrarily large currents at or near complete electrostatic neutralization. A discussion of a model for magnetic neutralization is presented wherein it is shown that large numbers of electrons from a background plasma are counter-streaming slowly within the beam so that the net current density in the system, and therefore the magnetic field, is nearly zero. A solution of an initial-value problem for a beam-plasma system is given which indicates that magnetic neutralization can be expected to occur for plasma densities that are large compared to beam densities.

ABS: It is found that the application of a strong axial magnetic field to a uniform beam allows propagation regardless of the magnitude of the

beam current.

AUTH: Hammer D.A. ; Rostoker N.
CLSS: U
CORP: Cornell University
DATE: 6906
DESC: Simulation Facilities Techniques x-ray effects L1
DESC: THEORY
SUJO: 4-231-000
SYMJ: Pulsed Electrical Power Radiation Production Notes; Vol. 2, Notes
14-27 (U)
TITL: Propagation of High Current Relativistic Electron Beams (U), 89 P.,
(U)

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PEP 3-2-24

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copy: 1 id: 50184-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: PEP 3-2-25

ABS: In the absence of a magnetic guide field, intense relativistic
electron beams will not propagate because the electrostatic
repulsive forces always dominate the magnetic pinching forces. It is
necessary to have some background ions to reduce the space charge of
the beam. With a sufficiently strong magnetic guide field in the
direction of propagation, it is, in principle, possible to have an
equilibrium with no ions. The theoretical basis for un-neutralized
propagation and beam focusing is presented. Experiments have been
carried out that indicate qualitative changes in beam propagation
and focusing with a guide field.

AUTH: Andrews M. ; Bzura J. ; Fleischmann H.H. ; Rostoker N.
CLSS: U
CORP: Cornell University
DATE: 6907
DESC: THEORY EXPERIMENTAL
DESC: Simulation Facilities Techniques x-ray effects L1
SUJO: 4-231-000
SYMJ: Pulsed Electrical Power Radiation Production Notes; Vol. 2, Notes
14-27 (U)
TITL: Effects of a Magnetic Guide Field on the Propagation of Intense
Relativistic Electron Beams (U), 21 P., (U)

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PEP 3-2-25

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copy: 1 id: 50185-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: PEP 3-2-26

ABS: The usage of a Cerenkov counter for the detection of x-ray photons

is discussed. It has been shown that this method enables one to discriminate against any x-ray photons with energy less than some critical energy $E_{\text{sub } c}$.

AUTH: Friedman M.
CLSS: U
CORP: Cornell University
DATE: 6907
DESC: test instruments x-ray effects L1
DESC: EXPERIMENTAL SUMMARY
SUJO: 4-330-000
SYMJ: Pulsed Electrical Power Radiation Production Notes; Vol. 2, Notes
14-27 (U)
TITL: Simple Method for Detecting High-Energy Low-Intensity X-rays in a
Low-Energy High-Intensity X-ray Background (U), 6 P., (U)

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PEP 3-2-26

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copy: 1 id: 50186-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: PEP 3-2-27

ABS: The transit time of high current beams of relativistic electrons
(40-50 kA, 350 keV) through an air filled (0.2-2.5 Torr) drift tube
has been measured. It is longer than expected, even allowing for the
loss of beam front electrons and for orbiting of the electrons in
the beam self magnetic field. Also, a pressure dependent
non-uniformity in the beam motion was observed which may account for
this delay.

AUTH: Andrews M.L. ; Davitian H. ; Hammer D.A. ; Fleischmann H.H. ; Nation
J.A. ; Rostoker N.

CLSS: U
CORP: Cornell University
DATE: 6907
DESC: Plasma Physics MHD fusion L1
DESC: EXPERIMENTAL SUMMARY
SUJO: 9-500-000
SYMJ: Pulsed Electrical Power Radiation Production Notes; Vol. 2, Notes
14-27 (U)
TITL: On the Propagation of High-Current Beams of Relativistic Electrons
in Gases (U), 10 P., (U)

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PEP 3-2-27

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copy: 1 id: 50187-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: PEP 3-3-28

AUTH: Clark J.J. ; Linke S.

CLSS: U
CORP: Cornell University
DATE: 6908
DESC: Simulation Facilities Techniques TREE L1
DESC: THEORY EXPERIMENTAL
SUJO: 4-272-000
SYMJ: Pulsed Electrical Power Radiation Production Notes; Vol. 3, Notes
28-35 (U)
TITL: Operational Characteristics and Entrance Conditions of a
High-Current Relativistic Electron Beam Accelerator (U), 144 P., (U)

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PEP 3-3-28

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copy: 1 id: 52936-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: PEP 3-3-29

ABS: The exact relativistic fields inside a perfectly conducting, closed, grounded cylindrical box of finite length, which are due to a charged particle moving down the axis in vacuum are obtained. This permits construction of the solution for a line segment propagating down the axis, and the return surface-current. The fields are shown to be causal so that no field is present before the light front. The technique of solution employs superposition of Lorentz transformed fields of the positive and negative images. The initial condition that there be no field in the box at time $t=0$ is satisfied by adding a superposition of the cavity modes to the inhomogeneous solution. The fields and energy in the wake are also found.

AUTH: Liboff R.L.

CLSS: U

CORP: Cornell University

DATE: 6906

DESC: THEORY

DESC: Simulation Facilities Techniques TREE L1

SUJO: 4-272-000

SYMJ: Pulsed Electrical Power Radiation Production Notes; Vol. 3, NOTES
28-35 (U)

TITL: Relativistic Fields Due to a Particle in a Grounded Cylindrical Box
(U), 45 P., (U)

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PEP 3-3-29

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copy: 1 id: 52937-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: PEP 3-3-30

ABS: A new electron beam injection gun has been developed to produce pulsed relativistic electron beams with a power of 10 to the 10th

watts. The annular shaped beam propagates in a magnetic field with efficiencies approaching 100% and its radius may be controlled by the magnetic field configuration.

AUTH: Friedman M. ; Ury M.
CLSS: U
CORP: Cornell University
DATE: 7001
DESC: Simulation Facilities Techniques TREE L1
DESC: EXPERIMENTAL
SUJO: 4-272-000
SYMJ: Pulsed Electrical Power Radiation Production Notes; Vol. 3, Notes
28-35 (U)
TITL: Production and Focusing of a High-Power Relativistic Annular
Electron Beam (U), 10 P., (U)

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PEP 3-3-30

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copy: 1 id: 52938-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: PEP 3-3-31

ABS: The development of a high frequency instability in a relativistic electron beam, propagating through a drift space, has been studied from measurements of the microwave emission from the beam. The results show that a part of the radiation is emitted from the region close to the beam front and that the intensity of this emission grows in time as it is convected along with the beam. The growth rate is of the order of 10 to the 8th sec (exp)-1 and depends on the macroscopic flow parameters. Experiments in different gases show that the growth rates are approximately proportional to the ionization probability of the gas. Precursor radiation is also monitored at comparable power levels to those found at the beam front.

ABS: Possible explanations of the radiation are proffered and the physical importance of the emission (~100 kw/m. length of drift tube) on beam neutralization and structure are indicated.

AUTH: Nation J.A. ; Gardner W.L.
CLSS: U
CORP: Cornell University
DATE: 7004
DESC: THEORY EXPERIMENTAL
DESC: Plasma Physics MHD fusion L1
SUJO: 9-500-000
SYMJ: Pulsed Electrical Power Radiation production Notes; Vol. 3, Notes
28-35 (U)
TITL: Experimental Investigation of the Microwave Radiation Emitted by a
High Current Relativistic Electron Beam (U), 34 P., (U)

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PEP 3-3-31

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copy: 1 id: 52939-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: PEP 3-3-32
AUTH: Lee R. ; Sudan R.N.
CLSS: U
CORP: Cornell University
DATE: 7005
DESC: THEORY
DESC: Plasma Physics MHD fusion L1
SUJO: 9-500-000
SYMJ: Pulsed Electrical Power Radiation Production Notes; Vol. 3, Notes
28-35 (U)
TITL: Return Current Induced by a Relativistic Beam Propagating in a
Magnetized Plasma (U), 56 P., (U)

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PEP 3-3-32

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copy: 1 id: 52940-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: PNE 0325
AUTH: ROHRER R.F. ; HURDLOW W.R.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 6908
REPN: PNE 0325
TITL: PHOTOGRAPHIC AND ACCELEROMETER MEASUREMENTS OF THE SURFACE MOTION ON
THE BUGGYCRATERING EXPERIMENT (U), 131 P., (U)

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PNE 0325

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copy: 1 id: 88911-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: PNE 0327
CLSS: U
CORP: PUBLIC HEALTH SERVICE/SOUTHWESTERN RADIOLOGICAL HEALTH LAB (LAS
VEGAS NEV)
DATE: 7009
REPN: PNE 0327
TITL: OFF-SITE ENVIRONMENTAL SURVEILLANCE. PROJECT BUGGY I (U), 128 P.,
(U)

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PNE 0327

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copy: 1 id: 88913-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: PNE 0330
AUTH: COHEN J.J.
CLSS: U
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7004
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
AIRBORNE SAMPLE
DESC: Environmental Conditions at Nuclear Weapon Test Site weather L9 P 2
DESC: Nuclear Weapon Environment Fallout Particles size distribution L1
DESC: Nuclear Weapon Environment Ground Shock craters excavations L9 P 2
REPN: PNE 0330
SHOT: BUGGY
TSHO: UG-VENTED ; MULTIPLE
SUJO: 2-222-300 ; 2-223-200 ; 2-625-000 ; 4-841-000
TITL: BUGGY; SPECIAL CLOUD CONTENT STUDIES (U), 20 P., (U)

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PNE 0330
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copy: 1 id: 88914-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: PNE 0910
CLSS: U
CORP: PUBLIC HEALTH SERVICE/SOUTHWESTERN RADIOLOGICAL HEALTH LAB (LAS
VEGAS NEV)
DATE: 7005
REPN: PNE 0910
TITL: FINAL REPORT OF OFF-SITE SURVEILLANCE FOR PROJECT PALANQUIN (U),
128P., (U)

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PNE 0910
.endblock

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copy: 1 id: 88971-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: PNE 0963
AUTH: ROHRER R.F.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 6906
REPN: PNE 0963

TITL: CABRIOLET SURFACE-MOTION AND VENTED-GAS TEMPERATURE MEASUREMENTS
(U), 103 P., (U)

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PNE 0963

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copy: 1 id: 88982-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: PNE 0964

AUTH: MARKS R.E.

CLSS: U

CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)

DATE: 6910

REPN: PNE 0964

TITL: MEASUREMENTS OF SUBSURFACE AND CLOSE-IN SURFACE DYNAMIC EFFECTS,
PROJECT CABRIOLET (U), 42 P., (U)

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PNE 0964

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copy: 1 id: 88983-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POR 1818

AUTH: MORK H.M. ; LARSON K.H. ; WOOD R.A. ; KOWALEWSKY B.W.

CLSS: U

CORP: UNIVERSITY OF CALIFORNIA (LOS ANGELES, CA)

DATE: 7007

DESC: Nuclear Weapon Environment fallout intensity contours patterns L1
TRAYS AERIAL

DESC: Nuclear Weapon Environment Fallout Particles size distribution L1 44
MICRON SCREENS

DESC: Nuclear Weapon Environment fallout fractionation L1 SR90 CS137 CE144

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
SPECIFIC ACTIVITY

DESC: BASALT ; EXPERIMENTAL

DESC: Nuclear Weapon Environment radiation decay gamma decay L1 44 MICRON
SCREENS

REPN: POR 1818 ; WT 1818

SHOT: DANNY BOY

TSHO: UG-VENTED

SUJO: 2-222-300 ; 2-223-200 ; 2-223-420 ; 2-223-500 ; 2-225-100

TITL: SOME RADIOLOGICAL OBSERVATIONS AND CHARACTERISTICS OF FALLOUT DEBRIS
FROM A NUCLEAR CRATERING EXPERIMENT, SHOT DANNY BOY; OPERATION
NOUGAT II, SHOT DANNY BOY, PROJECT 2.4 (U), 32 P., (U)

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POR 1818

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copy: 1 id: 89357-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: POR 2209
AUTH: CALDWELL P.A.
CLSS: SRD 1 CNWDI
CORP: HARRY DIAMOND LABORATORIES (WASHINGTON-DC)
DATE: 7002
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1
DESC: test instruments nuclear radiation neutron L5
DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L1
DESC: test instruments nuclear radiation gamma L5
DESC: Nuclear Test Simulation Field Programs experiment design gamma
experiments L5
DESC: CLOSE-IN OBSERVATION EARLY TIME ; EXPERIMENTAL
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L1
DESC: Nuclear Test Simulation Field Programs experiment design neutron
experiments L5
REPN: POR 2209 ; WT 2209
PROJ: 2.1
SHOT: SMALL BOY
TSHO: LOW-ALT
SUJO: 1-110-000 ; 1-610-000 ; 1-710-000 ; 1-740-000 ; 4-341-000 ;
4-342-000 ; 4-820-300 ; 4-820-400
TEMP: 71136
TITL: INITIAL RADIATION MEASUREMENTS, OPERATION SUN BEAM, SHOT SMALL BOY,
PROJECT OFFICERS REPORT, PROJECT 2.1(U), 128 P (SRD CNWDI)
TREE: 900

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POR 2209

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copy: 1 id: 89480-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: POR 2711
ADNO: 504908L
AUTH: UNGVARSKY J.J.
CLSS: SRD 1
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AFB-NM)
DATE: 6907
DESC: test instruments electronic vulnerability TREE L5
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L5
PULSE ADDER CIRCUIT ULTRA HIGH SPEED MONOSTABLE MULTIVIBRATOR HIGH
SPEED PULSE FORMING CIRCUIT CRYSTAL OSCILLATOR
DESC: test instruments nuclear radiation neutron L5

DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L5
VIDEO AMP
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L5 NOCO FUZE RECEIVER 4414 L1 HARDENING VERIFICATION
DESC: DATA
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L5 PASSIVE TESTS
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L9 PG
248-249
DESC: test instruments nuclear radiation dosimeters radiacs L5 GAMMA
NEUTRON
REPN: POR 2711 ; WT 2711
PROJ: 2.2
SHOT: PIN STRIPE
TSHO: UNDERGROUND
SUJO: 1-120-000 ; 3-213-000 ; 3-219-000 ; 3-221-000 ; 3-222-000 ;
4-342-000 ; 4-346-000 ; 4-372-000
TEMP: 73018
TITL: TRANSIENT RADIATION EFFECTS ON HARDENED ELECTRONIC CIRCUITS,
OPERATION MILD WIND, SHOT PIN STRIPE, PROJECT OFFICIERS REPORT,
REPORT 2.2 (U), 305 P, (SRD)

TREE: 397

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POR 2711

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copy: 1 id: 89578-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: POR 2718
ADNO: 395203L
AUTH: LIETZ G.P. ; LAMB R.C. ; CALDWELL P.A.
CLSS: SRD 1
CORP: ARMY/HARRY DIAMOND LABORATORIES (WASHINGTON-D.C.)
DATE: 6901
DESC: EXPERIMENTAL
DESC: test instruments nuclear radiation L1
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width
REPN: POR 2718 ; WT 2718
SHOT: PIN STRIPE
TSHO: UG-CONTAINED
SUJO: 1-110-000 ; 1-710-000 ; 1-740-000 ; 4-340-000
TEMP: 65297
TITL: TIME-RESOLVED RADIATION DOSIMETRY, OPERATION SILVER BELL, SHOT PIN
STRIPE, PROJECT OFFICIERS REPORT PROJECT 2.11 (U), 98 P (SRD)
TREE: 910 ; 920

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POR 2718

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copy: 1 id: 89582-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: POR 3061
AUTH: KRATZ H.R. ; AMES M.R. ; MAUTZ C.W. ; MUHL W.O. ; RINEHART R.E.
CLSS: SRD 1 CNWDI
CONN: DA 49 146 XZ 505
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO CA)
DATE: 7004
DESC: Nuclear Weapon Effects electronic pieceparts measuring devices
sensors detectors L1 [REDACTED]
DESC: EXPERIMENTAL SIMULATION [REDACTED]
DESC: Directed Energy Weapons kinetic energy KEW systems methods
[REDACTED]
REPN: POR 3061 ; WT 3061
PROJ: 1.11
SHOT: RUSSET
TSHO: UG CONTAINED
SUJO: 3-224-000 ; 3-751-057
TEMP: 77823
TITL: TEST INSTRUMENTATION, PROJECT OFFICERS REPORT--PROJECT 1.11 (U), 318
P., (SRD CNWDI)

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POR 3061

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copy: 1 id: 89620-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: POR 5005
ADNO: '500046L
AUTH: BARAN M.F. ; BAUM C.E. ; EKMAN W.J.
CLSS: SRD 1
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM)
DATE: 6905
DESC: Nuclear Test Simulation Field Programs experiment design EMP earth
currents geomagnetic effects
DESC: Nuclear Test Simulation Field Programs experiment design atmospheric
ionization RF propagation noise
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry
general descriptions
EMPF: 251
REPN: POR 5005 ; WT 5005
SHOT: DILUTED WATERS
SUJO: 2-311-000 ; 2-510-000 ; 4-823-000 ; 4-824-000
TEMP: 65062

TITL: MEASUREMENT OF AIR CONDUCTIVITY PARAMETERS IN HIGH-RADIATION FLUXES,
OPERATIONSILVER BELL, SHOT DILUTED WATERS, PROJECT OFFICERS REPORT,
PROJECT 2.5 (U), 78P (SRD)

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POR 5005

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copy: 1 id: 89657-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: POR 5008

ADNO: 395557L

AUTH: MCCOSKEY R.E. ; ARCHULETA J.E. ; HUEBNER H.D. ; STECKLER A. ;
TRIMMER P.A.

CLSS: SRD 1

CORP: ARMY/HARRY DIAMOND LABORATORIES (WASHINGTON-D.C.)

DATE: 6901

DESC: Nuclear Test Simulation Field Programs experiment design electrical
electronic cable noise instrumentation links

DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses

DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network

DESC: EXPERIMENTAL

EFFT: TREE ; NUCLEAR RADIATION

REPN: POR 5008 ; WT 5008

SHOT: DILUTED WATERS

TSHO: UG-CONTAINED

SUJO: 3-162-000 ; 3-219-000 ; 4-829-500

SYST: T 3024 E 3 (PROXIMITY FUZE)

TEMP: 65298

TITL: SUSCEPTIBILITY OF THE T 3024 E 3 PROXIMITY FUZE TO NUCLEAR
RADIATIONS, OPERATION SILVER BELL, SHOT DILUTED WATERS, PROJECT
OFFICERS REPORT PROJECT 2.9 (U), 82 P (SRD)

TREE: 397

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POR 5008

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copy: 1 id: 89660-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: POR 5021

ADNO: 500429L

AUTH: GERHARDT R.C. ; BERARDI M.P.

CLSS: SRD

CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AIR FORCE BASE-NM) ; AVCO
CORPORATION (WILMINGTON-MA)

DATE: 6903

DESC: Nuclear Weapon Effects reentry systems penaids

DESC: Cross Sections x-ray L1 W TI CU BE AL

DESC: THEORY EXPERIMENTAL
EFFT: X-RAY
REPN: POR 5021 ; WT 5021
SHOT: DOUBLE PLAY
TSHO: UG-CONTAINED ; HI-ALT
SUJO: 3-117-000 ; 9-840-000
TEMP: 63322
TITL: EFFECTS OF X RADIATION ON CHAFF, OPERATION FLINT LOCK, SHOT DOUBLE
PLAY, PROJECT OFFICERS REPORT, PROJECT 8.05 (U), 159 P (SRD)

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POR 5021

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copy: 1 id: 89669-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: POR 6103
ADNO: 505 003L
AUTH: CALDWELL P.A.
CLSS: C 3
CORP: HARRY DIAMOND LABORATORIES (WASHINGTON-DC) ; EG&G INCORPORATED
(SANTA BARBARA-CA)

DATE: 6910

DESC: test instruments nuclear radiation neutron L5 EVALUATION

DESC: Radiation Transport x-ray L1

DESC: Radiation Transport neutron L1

DESC: EXPERIMENTAL

DESC: test instruments nuclear radiation gamma L5 EVALUATION

REPN: POR 6103 ; WT 6103

PROJ: 2.1

SHOT: KIWI TNT

SUJO: 4-341-000 ; 4-342-000 ; 9-640-000 ; 9-650-000

TEMP: 67289

TITL: TIME-RESOLVED GAMMA RAY EXPOSURE AND FAST NEUTRON FLUX DENSITY FROM
KIWI-TNT, OPERATION ROVER, SHOT KIWI-TNT, PROJECT OFFICERS
REPORT-PROJECT 2.1 (U 55 P (C)

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POR 6103

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: POR 6104
ADNO: 849342L
AUTH: VAN ANTWERP W.R. ; CASH B.L. ; HENDRICKS W.D. ; GARDNER A.H. ;
YOUNGBLOOD J.E.

CLSS: U

CORP: ARMY/NUCLEAR DEFENSE LABORATORY (EDGEWOOD ARSENAL-MD)

DATE: 6903

DESC: SIMULATION ROVER ; EXPERIMENTAL
DESC: Nuclear Test Simulation Field Programs experiment design gamma
experiments
DESC: test instruments nuclear radiation gamma
REPN: POR 6104 ; WT 6104
SUJO: 4-341-000 ; 4-820-400
TITL: GAMMA SPECTRUM FEASIBILITY, OPERATION ROVER, KIWI-TNT EXPERIMENT,
PROJECT OFFICERS REPORT, PROJECT 2.3 (U), 63 P (U)

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POR 6104

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POR 6245
AUTH: DUKE W.L.
CLSS: SRD 1 CNWDI
CONN: AF 30 602 4341
CORP: AIR FORCE/ROME AIR DEVELOPMENT CENTER (GRIFFISS AIR FORCE BASE-NY) ;
NAVAL ORDNANCE SYSTEMS COMMAND ; APPLIED PHYSICS LAB JHU

DATE: 7003

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1

DTL GATES

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L1

DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L9 P171

DESC: THERMAL SHOCK ACTIVE TESTS PASSIVE TESTS ; EXPERIMENTAL

REPN: POR 6245 ; WT 6245

PROJ: 8.85

SHOT: MIDI MIST

TSHO: UNDERGROUND

SUJO: 1-120-000 ; 3-221-000 ; 3-222-000

TEMP: 71388

TITL: RADIATION VULNERABILITY OF MICROCIRCUITS, OPERATION LATCH KEY, SHOT
MIDI MIST,PROJECT OFFICERS REPORTPROJECT 8.85 (U), 315 P (SRD CNWDI)

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POR 6245

.endblock

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copy: 1 id: 89747-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POR 6274
AUTH: SACCENTI J.C. ; KRIAL N.P. ; CONLEY K.D.
CLSS: SRD 1
CCDE: SPECTRA
CORP: ARMY/NUCLEAR DEFENSE LABORATORY (EDGEWOOD ARSENAL-MD)
DATE: 6907
DESC: SCAMPI CLOSE-IN ; EXPERIMENTAL

DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1
REPN: POR 6274 ; WT 6274
PROJ: 8.54
SHOT: DORSAL FIN
TSHO: HI-ALT
SUJO: 1-110-000 ; 1-120-000 ; 1-710-000
TEMP: 65770
TITL: NEUTRON-FLUENCE AND GAMMA-RADIATION EXPOSURE MEASUREMENTS, LATCH KEY
SERIES, SHOT DORSAL FIN, PROJECT OFFICERS REPORT-PROJECT 8.54 (U),
44 P (SRD)
TREE: 910 ; 920

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POR 6274

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: POR 6277 V 4
AUTH: RUCHONNET D.
CLSS: SRD 1 CNWDI
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE-CA)
DATE: 7007
DESC: X RAY MK 3 ; EXPERIMENTAL SUMMARY
DESC: Nuclear Weapon Effects structures aboveground models L1 NUCLEAR
ASSEMBLY

REPN: POR 6277 V 4 ; WT 6277 V 4

PROJ: 8.61 VOL 4

SHOT: DORSAL FIN

TSHO: UG-CONTAINED

SUJO: 3-259-900

SYMJ: BOUND WITH PROJECT 8.61, POR 6277 V 2, V 3, V 4, WT 6277 V 2, V 3,
V4

TITL: NAVY SYSTEM EFFECTS EXPERIMENT, OPERATION LATCH KEY, SHOT DORSAL
FIN, PROJECT OFFICERS REPORT, PROJECT 8.61 VOLUME 4 (U), 8 P, (SRD
CNWDI)

TREE: 397

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POR 6277 V 4

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created: 12/27/1991 type: REPORT permanent

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INUM: POR 6301
AUTH: GWALTNEY J.H. ; BAUSCH H.P. ; HALPRIN R.W. ; MCCLYMONDS K.A.

CLSS: SRD 1 CNWDI
CORP: BELL TELEPHONE LABORATORIES, INCORPORATED, WHIPPANY, NEW JERSEY
MCDONNELL DOUGLAS ASTRONAUTICS COMPANY, SANTA MONICA, CALIFORNIA
DATE: 7009
DESC: Nuclear Weapon Effects electrical mechanical L1 BONDS
DESC: SPARTAN X RAY ; EXPERIMENTAL DATA
DESC: Nuclear Weapon Effects electronic subsystems guidance control L1
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1
CONNECTORS
DESC: Nuclear RDT&E Research Program Descriptions x-ray effects L1
DESC: Nuclear Weapon Effects structures aboveground models cylinders cones
rings L1 RINGS
DESC: Nuclear Test Simulation Field Programs experiment design x-ray
experiments L1
DESC: Nuclear Weapon Effects electrical mechanical pipes valves fittings
L1 NOZZLES
DESC: Nuclear Weapon Effects materials carbon L1 EED
DESC: Nuclear Weapon Effects materials ceramics optical L1 FUSED QUARTZ
POST TEST GAIN DATA
DESC: Nuclear Weapon Effects electronic pieceparts L1 RATE GYROS
REPN: POR 6301 ; WT 6301
PROJ: 8.31
SHOT: HUDSON SEAL
TSHO: UG CONTAINED
SUJO: 3-211-000 ; 3-220-000 ; 3-231-000 ; 3-236-000 ; 3-239-000 ;
3-241-000 ; 3-248-000 ; 3-259-400 ; 4-130-000 ; 4-820-500
TEMP: 73016
TTTL: EFFECTS OF RADIATION ON SPARTAN COMPONENTS, OPERATION MINUTE GUN,
SHOT HUDSON SEAL, PROJECT OFFICERS REPORT, PROJECT 8.31 (U), 355P
(SRD)
TREE: 392
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POR 6301
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copy: 1 id: 89787-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: POR 6306
ADNO: 505775L
AUTH: TOCHILIN E. ; JORDAN R.D. ; HAGGMARK L.G. ; READ P.A. ; SCOFIELD
N.E. ; TOMNOVEC F.M.
CLSS: SRD 1
CCDE: GREASED LIGHTNING ; HUDSON SEAL
CORP: NAVAL RADIOLOGICAL DEFENSE LAB. (SAN FRANCISCO, CA.)
DATE: 6911
DESC: Nuclear Weapon Effects electronic pieceparts measuring devices
sensors detectors L1 LIF DOSIMETERS
DESC: EXPERIMENTAL
REPN: POR 6306 ; WT 6306
SHOT: HUDSON SEAL
SUJO: 3-224-000

TEMP: 67762
TTTL: LIF PASSIVE DOSIMETER SYSTEM; MINUTE GUN SERIES, SHOT HUDSON SEAL,
PROJECT OFFICER'S REPORT--PROJECT 8.54 (U), 46 P., (SRD)

TREE: 655

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POR 6306

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POR 6320

ADNO: 503517L

AUTH: GREEN W.B.

CLSS: SRD 1

CONN: DA 49 146 XZ 529

CORP: E.H. PLESSET ASSOCIATES INC (SANTA MONICA-CA)

DATE: 7007

DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1 ALBEDO ELASTIC SCATTERING INELASTIC SCATTERING FAST
NEUTRONS FILTER TRANSMISSION BACKGROUND LEVELS

DESC: Nuclear Weapon Environment Initial Gamma angular distribution L1

DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L5

DESC: 0869

DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L9 PG18

REPN: POR 6320 ; WT 6320 ; C 85 68904

PROJ: 9.63

SHOT: HUDSON SEAL

TSHO: UNDERGROUND

SUJO: 1-110-000 ; 1-120-000 ; 1-710-000 ; 1-730-000

TEMP: 73024

TTTL: NEUTRON AND GAMMA RAY RADIATION BACKGROUNDS, MINUTE GUN SERIES, SHOT
HUDSON SEAL, PROJECT OFFICERS REPORT, PROJECT 9.63, 74 P., (SRD)

TREE: 910 ; 920

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POR 6320

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POR 6322

ADNO: 506 544L

AUTH: JORDAN R.D. ; TOCHLIN E. ; HAGGMARK L.G. ; READ D.A. ; SCOFFIELD
N.E. ; TOMMOVEC F.M.

CLSS: SRD 1

CORP: NAVY/NAVAL RADIOLOGICAL DEFENSE LABORATORY (SAN FRANCISCO-CA)

DATE: 6912

DESC: [REDACTED] EXPERIMENTAL

DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1
DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L1
REPN: POR 6322 ; WT 6322
PROJ: 8.54
SHOT: MING VASE
SUJO: 1-610-000 ; 1-620-000
TEMP: 69249
TTTL: PASSIVE DOSIMETRY SYSTEMS, OPERATION MINUTE GUN, SHOT MING VASE,
PROJECT OFFICER REPORT, PROJECT 8.54 (U), 40 P (SRD)
TREE: 930

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POR 6322

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: POR 6390
ADNO: 877512L
AUTH: POUND D.C.
CLSS: U
CONN: DASA 01 70 C 0003
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO-CA)
DATE: 7011
DESC: Environmental Conditions at Nuclear Weapon Test Site L1 POST EVENT
TEMPERATURE AND PRESSURE
REPN: POR 6390 ; WT 6390
PROJ: 9.64
SHOT: DIANA MIST
TSHO: UG CONTAINED
SUJO: 4-840-000
TTTL: MEASUREMENT OF TUNNEL ENVIRONMENT, OPERATION MINUTE GUN, SHOT DIANA
MIST, PROJECT OFFICERS REPORT, PROJECT 9.64 (U), 26 P (U)

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POR 6390

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created: 12/27/1991 type: REPORT permanent

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INUM: POR 6502
ADNO: 500033L
AUTH: TRIMMER P.A.
CLSS: SRD 1
CORP: ARMY/HARRY DIAMOND LABORATORIES (WASHINGTON-D.C.)
DATE: 6902
DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers

DESC: Nuclear Test Simulation Field Programs experiment design systems
response
DESC: EXPERIMENTAL
EFFT: TREE ; NUCLEAR RADIATION ; NEUTRON ; GAMMA
REPN: POR 6502 ; WT 6502
SHOT: NEW POINT
SUJO: 3-162-000 ; 3-221-000 ; 4-829-000
TEMP: 65063
TITL: NUCLEAR RADIATION SUSCEPTIBILITY OF FM/CW FUZE CIRCUITS, OPERATION
MILD WIND, SHOT NEW POINT, PROJECT OFFICERS REPORT, PROJECT 2.2 (U),
87 P (SRD)
TREE: 394

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POR 6502

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copy: 1 id: 89925-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POR 6507
ADNO: 511983L
AUTH: KRONENBERG S. ; NILSON K. ; PFEFFER R. ; LUX R. ; BERKOWITZ H. ; VAN
GORDEN H. ; LEWIS E.E. ; BASSO M.
CLSS: SRD 1
CORP: ARMY/ELECTRONICS COMMAND (FT MONMOUTH-NJ) ; NORTHWESTER UNIV. DEPT
OF NUCLEAR ENGINEERING (EVANSTON IL)
DATE: 7010
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic piecparts measuring devices
sensors detectors L1 NEUTRON MEASURING DEVICES
DESC: Radiation Transport neutron L5
REPN: POR 6507 ; WT 6507
PROJ: 2.7
SHOT: NEW POINT
SUJO: 3-224-000 ; 9-650-000
TEMP: 77267
TITL: TEST OF FAST NEUTRON SPECTROSCOPE, FINAL REPORT, SHOT NEW POINT,
OPERATION MILD WIND (U), 122 P, SRD
TREE: 364

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POR 6507

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copy: 1 id: 89929-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POR 6508
ADNO: 503885L
AUTH: KINCH J.W. ; CALDWELL P.A. ; LUNDBERG C.W. ; JAMES R.H. ; NISTLER
P.J. ; KORKOWSKI V.J. ; KAISNER R.W. ; GILMOUR G.A. ; KALAPACA H.P.

; WELDON T.P. ; DURKEER.K.

CLSS: SRD 1

CONN: DA 18 035 AMC 393 A

CORP: DEFENSE ATOMIC SUPPORT AGENCY (WASHINGTON-DC)

DATE: 6906

DESC: Nuclear Weapon Effects electronic pieceparts measuring devices
sensors detectors L5 TREE NUCLEAR RADIATION PERMANENT DAMAGE

DESC: test instruments nuclear radiation gamma L1

DESC: test instruments nuclear radiation neutron L1

DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L5
TREE NUCLEAR RADIATION PERMANENT DAMAGE

DESC: MIGHTY SKY ; EXPERIMENTAL

DESC: Nuclear Weapon Environment Initial Gamma energy spectrum L9 P16

DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L9 P18

REPN: POR 6508 ; WT 6508

PROJ: 2.8

SHOT: NEW POINT

TSHO: UG-CONTAINED

SUJO: 1-120-000 ; 1-720-000 ; 3-213-000 ; 3-224-000 ; 4-341-000 ;
4-342-000

TEMP: 69596

TITL: TESTING OF MIGHTY SKY PROTOTYPE INSTRUMENTATION (U), OPERATION MILD
WIND, SHOTNEW POINT, PROJECT OFFICERS REPORT, PROJECT 2.8, 173 P,
(SRD)

TREE: 651 ; 652

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POR 6508

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created: 12/27/1991 type: REPORT permanent

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INUM: POR 6513 2

ADNO: 504022L

AUTH: CRANDALL W.E. ; CRANDALL P.A.

CLSS: SRD

CORP: HARRY DIAMOND LABS. (WASH., DC)

DATE: 6909

DESC: EXPERIMENTAL

DESC: test instruments nuclear radiation neutron L1

DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1

REPN: POR 6513 2 ; WT 6513 2

SHOT: NEW POINT

TSHO: UG-CONTAINED

SUJO: 1-110-000 ; 4-342-000

TEMP: C4532

TITL: OPERATION MILD WIND, SHOT NEW POINT; NEUTRON BURST DETECTOR (U), 100
P., (SRD)

TREE: 920 ; 652

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POR 6513 2

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created: 12/27/1991 type: REPORT permanent

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INUM: POR 6513 3

ADNO: 502108L

AUTH: CALDWELL P.A. ; LOWREY A.R. ; SEILER R.F.

CLSS: SRD

CONN: DA 49 186 AMC 256 X

CORP: DEFENSE ATOMIC SUPPORT AGENCY (WASHINGTON-DC)

DATE: 6904

DESC: test instruments nuclear radiation neutron L1

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L5 APPENDIX A

REPN: POR 6513 3 ; WT 6513 3

PROJ: 2.13

SHOT: NEW POINT

TSHO: UG-CONTAINED

SUJO: 1-110-000 ; 4-342-000

TEMP: 67802

TITL: ACTIVE NEUTRON DETECTOR FOR NEW POINT (U), FINAL REPORT, 86 P, (SRD)

TREE: 652

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POR 6513 3

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created: 12/27/1991 type: REPORT permanent

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INUM: POR 6527

ADNO: 510178L

AUTH: GOTO J.M. ; COX L.S.

CLSS: SRD 1

CORP: HARRY DIAMOND LABS (WASHINGTON-DC)

DATE: 7008

DESC: Nuclear Weapon Effects electronic pieceparts measuring devices
sensors detectors L1 X RAY TREE

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L1 P23

DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1 P21

DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1 P22

REPN: POR 6527

PROJ: 2.06

SHOT: MILK SHAKE

TSHO: UG CONTAINED

SUJO: 1-120-000 ; 1-610-000 ; 1-710-000 ; 3-224-000

TEMP: 75127
TITL: RADIATION EFFECTS ON FLUIDIC CIRCUITS, OPERATION LATCH KEY, MILD
WIND SERIES, SHOT MILK SHAKE, PROJECT OFFICERS REPORT

TREE: 350

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POR 6527

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INUM: SR 073

ABS: This summary document reviews and analyzes data of nuclear weapons effects within a forest which are relevant to military problems. tree blowdown due to airblast, translation of debris, prompt and residual nuclear radiation, initial thermal radiation and fire spread from detonations occurring within or near a forest are considered. The methods by which these phenomena affect troop movement, personnel casualties, and impairment of equipment are detailed. The various analytical models which represent both the phenomena and the effects are analyzed. Guidance for possible future research effort is given.

AUTH: MESZAROS J.J. ; KELSO J.R.

CLSS: C

CONN: DASA 01 68 C 0007

CORP: GENERAL ELECTRIC COMPANY (SANTA BARBARA-CA)

DATE: 6908

DESC: Nuclear Weapon Environment Thermal Output source strength total intensity L5

DESC: Nuclear Warfare Theater operations scenarios mobility L1

DESC: Nuclear Weapon Effects on animals ionizing radiation L1

DESC: Nuclear Weapon Effects on plants blast shock blowdown L1 DATA

SUMMARY

DESC: Nuclear Weapon Environment Infrared Output source strength total intensity L1 GOOD SUMMARY

DESC: Nuclear Weapon Effects on animals thermal L1

DESC: Nuclear Weapon Environment Ground Shock L1 GOOD SUMMARY

DESC: Nuclear Weapon Effects on animals blast shock L1

DESC: Plant Studies L5 FOREST CLASSIFICATION

DESC: SUMMARY

REPN: DASIAC SR 073 ; N2 TR 1 69

ADNO: 505412L

TSHO: LOW-ALT

SUJO: 1-210-000 ; 1-310-000 ; 2-620-000 ; 3-311-000 ; 3-312-000 ;
3-313-000 ; 3-331-000 ; 3-411-420 ; 6-900-000

TEMP: 81815 (2 COPIES)

TITL: NUCLEAR WEAPON EFFECTS IN A FOREST ENVIRONMENT-BLOWDOWN (U), 394 P,
(C)

TNFF: 4875

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SR 073

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: SR 100
AUTH: HORTON C.E. ; SACHS D.C.
CLSS: SRD 1
CONN: DASA 01 70 C 0035
CORP: KAMAN NUCLEAR (COLORADO SPRINGS-CO)
DATE: 6905
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1
DESC: Nuclear Weapon Phenomenology Fireball Energy Partition Energy
Coupling L5
DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L1
DESC: Nuclear Weapon Environment Thermal Output rate L1
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1
DESC: SURVEY
REPN: DASIAC SR 100
SUJO: 1-210-000 ; 1-240-000 ; 1-610-000 ; 2-150-000 ; 5-200-000
TEMP: 81831
TITL: THERMAL RADIATION PHENOMENA, ADVANCE DRAFT (U), 218 P (SRD)

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SR 100

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created: 12/27/1991 type: REPORT permanent

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INUM: SR 102
ABS: This guide's purpose is to offer to interested scientists and
engineers a bibliographic overview of available literature on
nuclear weapons effects. It should provide initial bibliographic
guidance to those readers new to the study of weapons effects, to
those experienced in a particular weapons-effects field but wishing
to expand their knowledge beyond their field, and to those
specialists about to begin a survey in a particular weapons-effects
area.
ADNO: 870931
AUTH: ROWLAND R.H. ; MARTIN E.J.
CLSS: U
CONN: DASA 01 70 C 0035
CORP: GENERAL ELECTRIC COMPANY/DASA INFORMATION AND ANALYSIS CENTER (SANTA
BARBARA-CA)
DATE: 7003
DESC: Nuclear Weapon Effects on animals ionizing radiation L5
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry
general descriptions L5
DESC: Nuclear Weapon Effects electronic pieceparts L5

DESC: Nuclear Weapon Environment fallout Deposition L5
 DESC: Nuclear Weapon Effects on animals blast shock L5
 DESC: Nuclear Weapon Effects on animals integrated effects L5
 DESC: Nuclear Weapon Environment Infrared Output source strength total
 intensity L5
 DESC: Nuclear Weapon Phenomenology Fireball Dimensions Rise Rates L5
 DESC: Nuclear Weapon Environment Initial Gamma L5
 DESC: Nuclear Weapon Environment Prompt Neutrons L5
 DESC: Nuclear Weapon Environment Ground Shock L5
 DESC: Nuclear Weapon Effects electronic subsystems L5
 DESC: Nuclear Weapon Environment X-ray Output L5
 DESC: Nuclear Weapon Effects ship systems L5
 DESC: Nuclear Weapon Effects aerospace systems L5
 DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
 distribution energy spectrum L5
 DESC: Nuclear Weapon Effects land transport L5
 DESC: BIBLIOGRAPHY
 DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L5
 DESC: Nuclear Weapon Effects structures hard launch sites L5
 DESC: Nuclear Weapon Effects Communications Systems C4 hardware L5
 DESC: Nuclear Weapon Effects structures field fortifications L5
 DESC: Nuclear Weapon Effects on animals thermal L5
 DESC: Nuclear Weapon Environment Thermal Output L5
 DESC: Simulation Facilities Techniques blast shock L5
 REPN: DASIAC SR 102
 SUJO: 1-100-000 ; 1-200-000 ; 1-310-000 ; 1-600-000 ; 1-700-000 ;
 2-110-000 ; 2-210-000 ; 2-225-000 ; 2-311-000 ; 2-510-000 ;
 2-620-000 ; 3-110-000 ; 3-116-000 ; 3-120-000 ; 3-130-000 ;
 3-140-000 ; 3-150-000 ; 3-210-000 ; 3-220-000 ; 3-311-000 ;
 3-312-000 ; 3-313-000 ; 3-315-000 ; 4-210-000
 TTTL: GUIDE TO NUCLEAR WEAPONS EFFECTS LITERATURE (U), 41 P (U)
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 SR 102
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 copy: 1 id: 90799-1001 library: DOCUMENT price: \$.00
 cat1: cat2: home: STACKS current: STACKS
 created: 12/27/1991 type: REPORT permanent
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